

10/513699

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes
NEWS	3	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS	4	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS	5	AUG 24	CA/CAPLUS enhanced with legal status information for U.S. patents
NEWS	6	SEP 09	50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
NEWS	7	SEP 11	WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
NEWS	8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
NEWS	9	OCT 21	Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
NEWS	10	NOV 23	Addition of SCAN format to selected STN databases
NEWS	11	NOV 23	Annual Reload of IFI Databases
NEWS	12	DEC 01	FRFULL Content and Search Enhancements
NEWS	13	DEC 01	DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS	14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS	15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS	16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS	17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAPLUS
NEWS	18	JAN 12	Match STN Content and Features to Your Information Needs, Quickly and Conveniently
NEWS	19	JAN 25	Annual Reload of MEDLINE database
NEWS	20	FEB 16	STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download
NEWS	21	FEB 16	Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts
NEWS	22	FEB 16	New FASTA Display Formats Added to USGENE and PCTGEN
NEWS	23	FEB 16	INPADOCDB and INPAFAMDB Enriched with New Content and Features

<12/04/2007>

Erich Leese

10/513699

NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail
Addresses

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

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FULL ESTIMATED COST	0.66	0.66

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STRUCTURE FILE UPDATES: 11 MAR 2010 HIGHEST RN 1209050-63-4
DICTIONARY FILE UPDATES: 11 MAR 2010 HIGHEST RN 1209050-63-4

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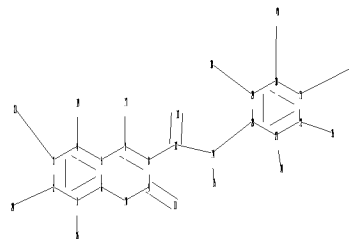
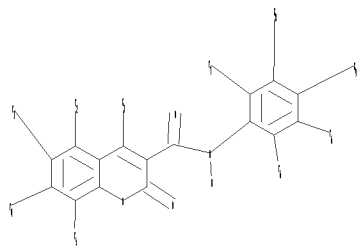
<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10537711phenyl.str

<12/04/2007>

Erich Leese

10/513699



chain nodes :
11 12 13 14 15 17 19 21 24 26 34 35 38 40 42
ring nodes :
1 2 3 4 5 6 7 8 9 10 27 28 29 30 31 32
chain bonds :
1-26 2-24 3-21 4-19 7-17 8-12 9-11 12-14 12-13 14-15 14-28 27-34 29-38
30-40 31-42 32-35
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 27-28 27-32 28-29 29-30
30-31 31-32
exact/norm bonds :
1-26 2-24 3-21 4-19 5-7 6-10 7-8 7-17 8-9 9-10 9-11 12-14 12-13 14-28
27-34 29-38 30-40 31-42 32-35
exact bonds :
8-12 14-15
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 27-28 27-32 28-29 29-30 30-31 31-32
isolated ring systems :
containing 27 :

G1:C,H

<12/04/2007>

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G2:H, Ak

G3:H, X, Ak, NO2, C

G4:H, OH, Ak, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, s-BuO, t-BuO, C, O

G5:H, Ak, O, NO2

G6:H, CH3

G7:H, CH3, OH, CO2H

G8:H, CH3, CF3, CC13, CBr3, OH, CO2H, O

G9:H, CH3, OH, CO2H, C, X, MeO, EtO, NO2, S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 17:CLASS 19:CLASS 21:CLASS
24:CLASS 26:CLASS 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 34:CLASS
35:CLASS 38:CLASS 40:CLASS 42:CLASS

L1 STRUCTURE UPLOADED

=> s l1 sss

SAMPLE SEARCH INITIATED 14:53:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 404 TO ITERATE

100.0% PROCESSED 404 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 6875 TO 9285

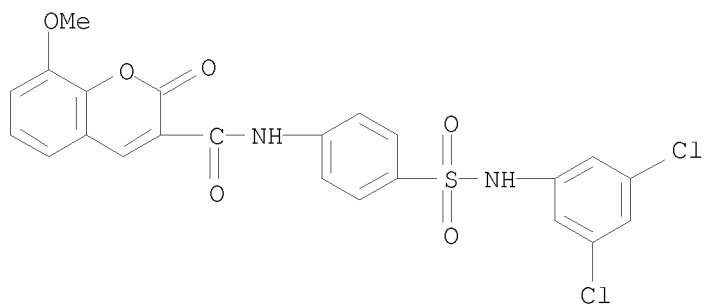
PROJECTED ANSWERS: 882 TO 1878

L2 50 SEA SSS SAM L1

=> d scan

10/513699

L2 50 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(3,5-
dichlorophenyl)amino]sulfonyl]phenyl]-8-methoxy-2-oxo-
MF C23 H16 Cl2 N2 O6 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

10/513699

=> s l1 full

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FULL SEARCH INITIATED 14:53:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8024 TO ITERATE

100.0% PROCESSED 8024 ITERATIONS 1386 ANSWERS
SEARCH TIME: 00.00.01

L3 1386 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	192.03	192.69

FILE 'CAPLUS' ENTERED AT 14:53:52 ON 12 MAR 2010
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FILE LAST UPDATED: 11 Mar 2010 (20100311/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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=> s l3 full

L4 135 L3

=> d ibib abs hitstr tot

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

10/513699

L4 ANSWER 1 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:1352116 CAPLUS

DOCUMENT NUMBER: 152:113488

TITLE: Small-Molecule Activators of a Proenzyme

AUTHOR(S): Wolan, Dennis W.; Zorn, Julie A.; Gray, Daniel C.;
Wells, James A.

CORPORATE SOURCE: Departments of Pharmaceutical Chemistry and Cellular
and Molecular Pharmacology, University of California,
San Francisco, San Francisco, CA, 94158, USA

SOURCE: Science (Washington, DC, United States) (2009),
326(5954), 853-858

CODEN: SCIEAS; ISSN: 0036-8075

PUBLISHER: American Association for the Advancement of Science

DOCUMENT TYPE: Journal

LANGUAGE: English

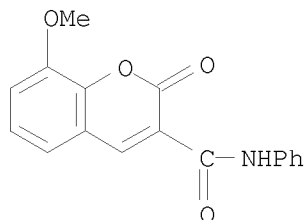
AB Virtually all of the 560 human proteases are stored as inactive proenzymes and are strictly regulated. We report the identification and characterization of the first small mols. that directly activate proenzymes, the apoptotic procaspases-3 and -6. It is surprising that these compds. induce autoproteolytic activation by stabilizing a conformation that is both more active and more susceptible to intermol. proteolysis. These procaspase activators bypass the normal upstream proapoptotic signaling cascades and induce rapid apoptosis in a variety of cell lines. Systematic biochem. and biophys. analyses identified a cluster of mutations in procaspase-3 that resist small-mol. activation both in vitro and in cells. Compds. that induce gain of function are rare, and the activators reported here will enable direct control of the executioner caspases in apoptosis and in cellular differentiation. More generally, these studies presage the discovery of other proenzyme activators to explore fundamental processes of proenzyme activation and their fate-determining roles in biol.

IT 87872-57-9P

RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(small-mol. activators of proenzyme)

RN 87872-57-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:858466 CAPLUS

DOCUMENT NUMBER: 151:148323

TITLE: Preparation of chromonecarboxamides and related compounds as activators of executioner procaspases 3, 6 and 7.

INVENTOR(S): Wells, Jim; Renslo, Adam R.; Wolan, Dennis; Zorn, Julie

PATENT ASSIGNEE(S): University of California, USA

SOURCE: PCT Int. Appl., 145pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

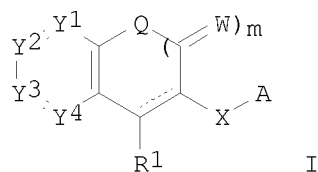
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2009089508	A1	20090716	WO 2009-US30680	20090109
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2008-20608P P 20080111

OTHER SOURCE(S): MARPAT 151:148323

GI



AB Title compds. [I; m = 0, 1; W = O, NORa, S, C(Ra)₂; Ra = H, alkyl, aralkyl, alkenyl, alkynyl, cycloalkyl; Q = O, NRa; X = bond, C(:W1)NH, SO₂NH, etc.; W1 = O, NORa, S; Y1-Y4 = CR₂, N; R2 = H, aralkyl, alkyl, alkoxy, OH, halo, aralkylamino, alkylamino; R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl; A = (substituted) alkyl, (fused) Ph, pyridyl, pyrimidyl, etc.; dotted line = optional double bond; with a proviso], were prepared Thus, diisopropylethylamine, 8-methoxy-2-carboxycoumarin, and HATU were stirred together in DMF; 3-(imidazo[1,2-a]pyridin-2-yl)phenylamine was added and the mixture was stirred 30 min. to give 8-methoxy-2-oxo-2H-chromene-3-carboxylic acid 3-(imidazo[1,2-a]pyridin-2-yl)phenylamide. The latter activated procaspase 3 and 6 with EC₅₀ values of 0.5-10 μM.

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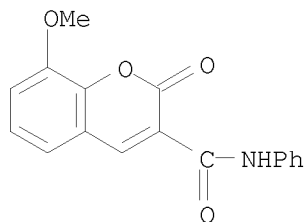
IT 87872-57-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of chromonecarboxamides and related compds. as activators of
executioner procaspases 3, 6 and 7)

RN 87872-57-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)



REFERENCE COUNT:

2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:846111 CAPLUS

DOCUMENT NUMBER: 151:92848

TITLE: Method using lifespan-altering compounds for altering the lifespan of eukaryotic organisms, and screening for such compounds

INVENTOR(S): Goldfarb, David Scott

PATENT ASSIGNEE(S): University of Rochester, USA

SOURCE: U.S. Pat. Appl. Publ., 57pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 20

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090163545	A1	20090625	US 2008-341615	20081222
US 20090163545	A1	20090625	US 2008-341615	20081222
PRIORITY APPLN. INFO.:			US 2008-23801P	P 20080125
			US 2007-16362P	P 20071221
			US 2008-341615	20081222

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

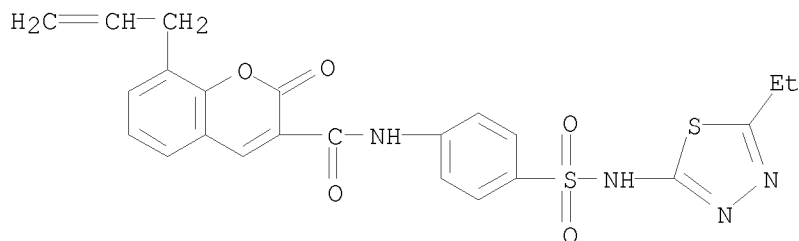
AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 313533-30-1

RL: PAC (Pharmacological activity); BIOL (Biological study)
 (method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)

RN 313533-30-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5-ethyl-1,3,4-thiadiazol-2-yl)amino]sulfonyl]phenyl]-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



L4 ANSWER 4 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:846110 CAPLUS

DOCUMENT NUMBER: 151:92847

TITLE: Method using lifespan-altering compounds for altering the lifespan of eukaryotic organisms, and screening for such compounds

INVENTOR(S): Goldfarb, David Scott

PATENT ASSIGNEE(S): University of Rochester, USA

SOURCE: U.S. Pat. Appl. Publ., 57pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 20

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090163545	A1	20090625	US 2008-341615	20081222
US 20090163545	A1	20090625	US 2008-341615	20081222
PRIORITY APPLN. INFO.:			US 2008-23801P	P 20080125
			US 2007-16362P	P 20071221
			US 2008-341615	20081222

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

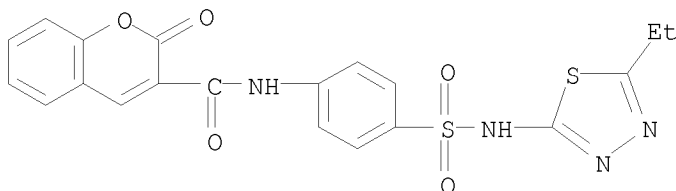
AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 302952-30-3

RL: PAC (Pharmacological activity); BIOL (Biological study)
(method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)

RN 302952-30-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5-ethyl-1,3,4-thiadiazol-2-yl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



10/513699

L4 ANSWER 5 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:846105 CAPLUS

DOCUMENT NUMBER: 151:92842

TITLE: Method using lifespan-altering compounds for altering the lifespan of eukaryotic organisms, and screening for such compounds

INVENTOR(S): Goldfarb, David Scott

PATENT ASSIGNEE(S): University of Rochester, USA

SOURCE: U.S. Pat. Appl. Publ., 57pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 20

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090163545	A1	20090625	US 2008-341615	20081222
US 20090163545	A1	20090625	US 2008-341615	20081222
PRIORITY APPLN. INFO.:			US 2008-23801P	P 20080125
			US 2007-16362P	P 20071221
			US 2008-341615	20081222

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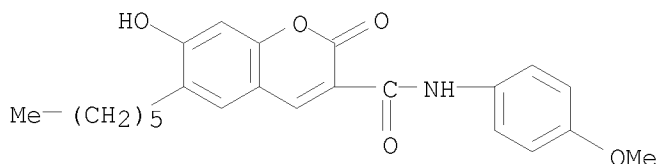
AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 333772-71-7

RL: PAC (Pharmacological activity); BIOL (Biological study)
(method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)

RN 333772-71-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-hexyl-7-hydroxy-N-(4-methoxyphenyl)-2-oxo-
(CA INDEX NAME)



10/513699

L4 ANSWER 6 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:846102 CAPLUS

DOCUMENT NUMBER: 151:92839

TITLE: Method using lifespan-altering compounds for altering the lifespan of eukaryotic organisms, and screening for such compounds

INVENTOR(S): Goldfarb, David Scott

PATENT ASSIGNEE(S): University of Rochester, USA

SOURCE: U.S. Pat. Appl. Publ., 57pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 20

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 20090163545	A1	20090625	US 2008-341615	20081222
US 20090163545	A1	20090625	US 2008-341615	20081222
PRIORITY APPLN. INFO.:			US 2008-23801P	P 20080125
			US 2007-16362P	P 20071221
			US 2008-341615	20081222

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

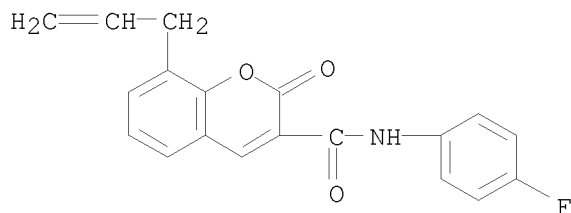
AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 312616-83-4

RL: PAC (Pharmacological activity); BIOL (Biological study)
(method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)

RN 312616-83-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-fluorophenyl)-2-oxo-8-(2-propen-1-yl)-
(CA INDEX NAME)



10/513699

L4 ANSWER 7 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:846100 CAPLUS

DOCUMENT NUMBER: 151:92837

TITLE: Method using lifespan-altering compounds for altering the lifespan of eukaryotic organisms, and screening for such compounds

INVENTOR(S): Goldfarb, David Scott

PATENT ASSIGNEE(S): University of Rochester, USA

SOURCE: U.S. Pat. Appl. Publ., 57pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 20

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090163545	A1	20090625	US 2008-341615	20081222
US 20090163545	A1	20090625	US 2008-341615	20081222
PRIORITY APPLN. INFO.:			US 2008-23801P	P 20080125
			US 2007-16362P	P 20071221
			US 2008-341615	20081222

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

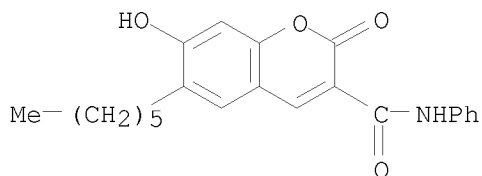
AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 333772-41-1

RL: PAC (Pharmacological activity); BIOL (Biological study)
(method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)

RN 333772-41-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-hexyl-7-hydroxy-2-oxo-N-phenyl- (CA INDEX NAME)



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090163545	A1	20090625	US 2008-341615	20081222
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US 20090163545	A1	20090625	US 2008-341615	20081222
US 20090163545	A1	20090625	US 2008-341615	20081222
US 20090163545	A1	20090625	US 2008-341615	20081222
WO 2009086303	A2	20090709	WO 2008-US88016	20081222
WO 2009086303	A3	20091230		

W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
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	FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,
	KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
	ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
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RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
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10/513699

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

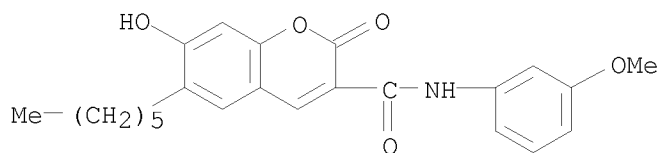
AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 330833-61-9

RL: PAC (Pharmacological activity); BIOL (Biological study)
(method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)

RN 330833-61-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-hexyl-7-hydroxy-N-(3-methoxyphenyl)-2-oxo-
(CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

10/513699

L4 ANSWER 9 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:696852 CAPLUS

DOCUMENT NUMBER: 152:144641

TITLE: Synthesis and antimicrobial activity of some nitrogen heterocycles incorporation into coumarin

AUTHOR(S): Abd El-Ghaffar, Nahed F.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Girls Branch, Al-Azhar University, Cairo, Egypt

SOURCE: Egyptian Journal of Chemistry (2007), 50(5), 691-698
CODEN: EGJCA3; ISSN: 0449-2285

PUBLISHER: National Information and Documentation Centre

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A method for the synthesis of the title compds. is reported here. An example compound thus prepared was 5-bromo-N-[6-[(diethylamino)sulfonyl]-2-benzothiazolyl]-2-oxo-2H-1-benzopyran-3-carboxamide. Substituted 3-carbethoxycoumarin was treated with aromatic primary amines [e.g. aniline, o-toluidine] to give N-substituted carboxamides. Also, when 3-carbethoxycoumarin derivs. were treated with aromatic heterocyclic amines such as 2-aminopyridine, 2-aminothiazole, 2-aminobenzothiazole and 3-methyl-5-ethoxy-1H-pyrrole the products are N-substituted coumarin-3-carboxamide derivs. The MS for one compound shows ion peaks fragmentation at m/z 400/402 and other peaks at m/z 251/252 m/z 172 m/z 74. Alc. ferric chloride test doesn't give any definite color of phenol, i.e. the α -pyrone ring is not cleavage.

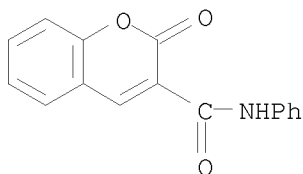
IT 54396-25-7P, 2-Oxo-N-phenyl-2H-1-benzopyran-3-carboxamide

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of (oxo)benzopyrancarboxamide derivs. and determination of their activity as antimicrobial agents)

RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 10 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:279794 CAPLUS

DOCUMENT NUMBER: 150:374245

TITLE: Synthesis, Molecular Modeling, and Selective Inhibitory Activity against Human Monoamine Oxidases of 3-Carboxamido-7-Substituted Coumarins

AUTHOR(S): Chimenti, Franco; Secci, Daniela; Bolasco, Adriana; Chimenti, Paola; Bizzarri, Bruna; Granese, Arianna; Carradori, Simone; Yanez, Matilde; Orallo, Francisco; Ortuso, Francesco; Alcaro, Stefano

CORPORATE SOURCE: Dipartimento di Chimica e Tecnologie del Farmaco, Universita degli Studi di Roma La Sapienza, Rome, 00185, Italy

SOURCE: Journal of Medicinal Chemistry (2009), 52(7), 1935-1942

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 150:374245

AB A large series of 3-carboxamido-7-substituted coumarins have been synthesized and tested in vitro for their human monoamine oxidase A and B (hMAO-A and hMAO-B) inhibitory activity. Taking into account all the relevant structural information on MAOs reported in the literature, we made some changes in the coumarin nucleus and examined with particular attention the effect on activity and selectivity of substituting at position 3 with N-aryl or N-alkyl carboxamide and at position 7 with a benzyloxy or a 4'-F-benzyloxy group. Some of the assayed compds. proved to be potent, selective inhibitors of hMAO-B with IC50 values in the micromolar range. To better understand the enzyme-inhibitor interaction and to explain the selectivity of the most active compds. toward hMAOs, mol. modeling studies were carried out on new, high resolution, hMAO-A and hMAO-B crystallog. structures.

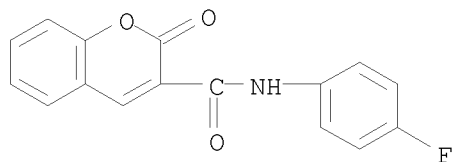
IT 216985-29-4P 1136858-52-0P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(mol. modeling; preparation of 3-carboxamido-7-substituted coumarins as inhibitors of human monoamine oxidase A and B)

RN 216985-29-4 CAPLUS

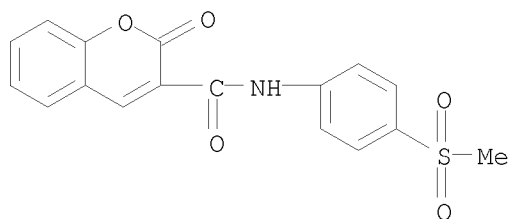
CN 2H-1-Benzopyran-3-carboxamide, N-(4-fluorophenyl)-2-oxo- (CA INDEX NAME)



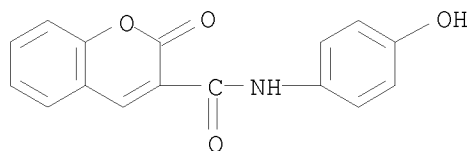
RN 1136858-52-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(methylsulfonyl)phenyl]-2-oxo- (CA INDEX NAME)

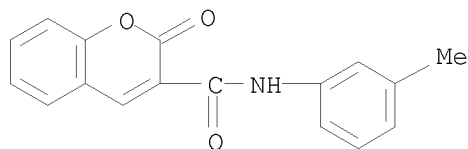
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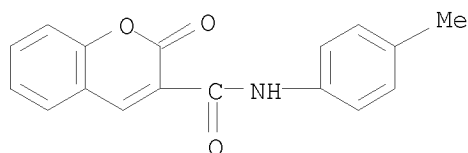
IT 1846-97-5 1846-99-7 1847-00-3
1847-05-8 15116-42-4 54396-25-7
94905-44-9 304887-43-2 886760-87-8
RL: PAC (Pharmacological activity); BIOL (Biological study)
(preparation of 3-carboxamido-7-substituted coumarins as inhibitors of human
monoamine oxidase A and B)
RN 1846-97-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1846-99-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)

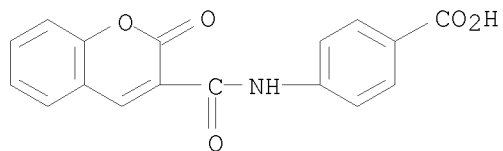


RN 1847-00-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

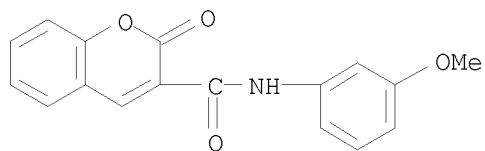


RN 1847-05-8 CAPLUS
CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]- (CA INDEX NAME)

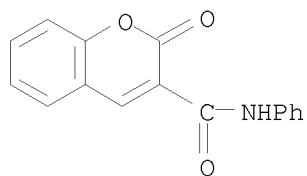
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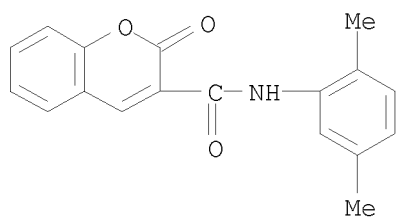
RN 15116-42-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

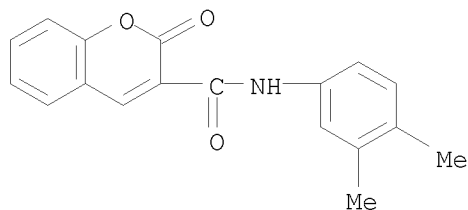


RN 94905-44-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2,5-dimethylphenyl)-2-oxo- (CA INDEX NAME)



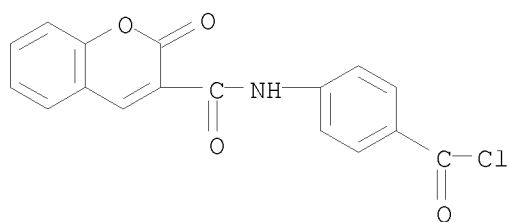
RN 304887-43-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



RN 886760-87-8 CAPLUS

CN Benzoyl chloride, 4-[[2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



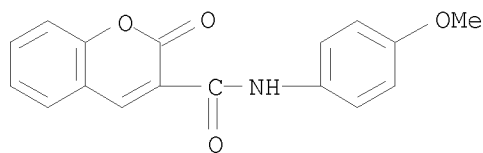
IT 1846-94-2 111947-24-1 886760-84-5

RL: PAC (Pharmacological activity); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)

(preparation of 3-carboxamido-7-substituted coumarins as inhibitors of human monoamine oxidase A and B)

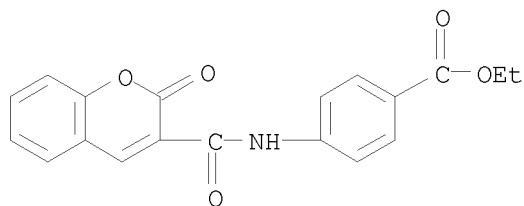
RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)

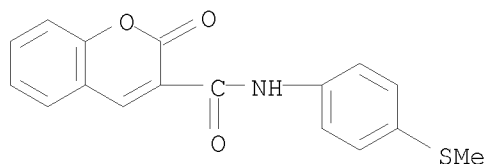


RN 886760-84-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(methylthio)phenyl]-2-oxo- (CA INDEX NAME)

10/513699

NAME)

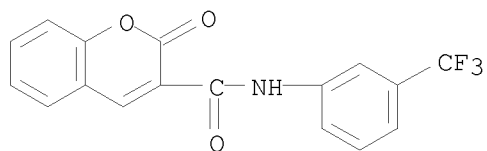


IT 301196-52-1P 301234-67-3P 304887-42-1P
304887-44-3P 304887-46-5P 317327-16-5P
325807-51-0P 354540-94-6P 1136858-84-8P
1136858-93-9P 1136859-08-9P 1136859-13-6P
1136859-18-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation)
(preparation of 3-carboxamido-7-substituted coumarins as inhibitors of human
monoamine oxidase A and B)

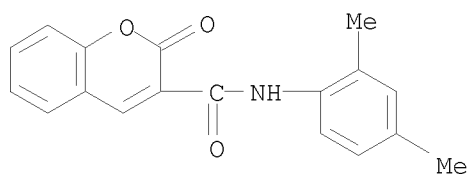
RN 301196-52-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA
INDEX NAME)



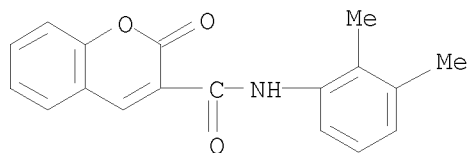
RN 301234-67-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(2,4-dimethylphenyl)-2-oxo- (CA INDEX
NAME)



RN 304887-42-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(2,3-dimethylphenyl)-2-oxo- (CA INDEX
NAME)



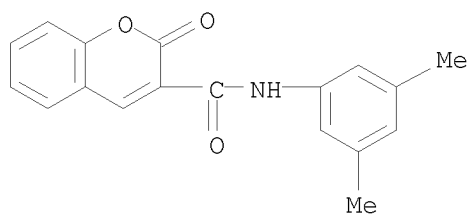
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10/513699

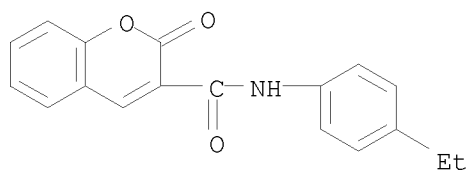
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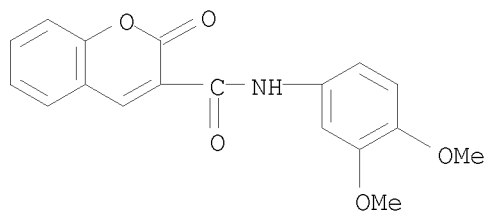
RN 304887-46-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethylphenyl)-2-oxo- (CA INDEX NAME)



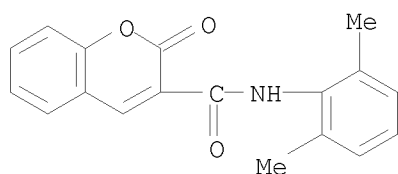
RN 317327-16-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 325807-51-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(2,6-dimethylphenyl)-2-oxo- (CA INDEX NAME)



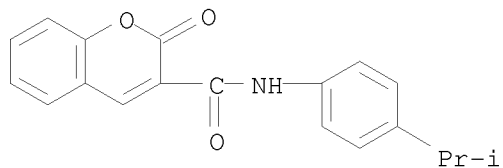
RN 354540-94-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-methylethyl)phenyl]-2-oxo- (CA INDEX NAME)

<12/04/2007>

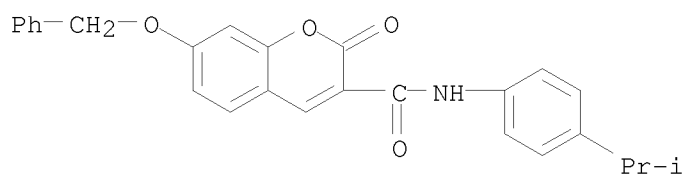
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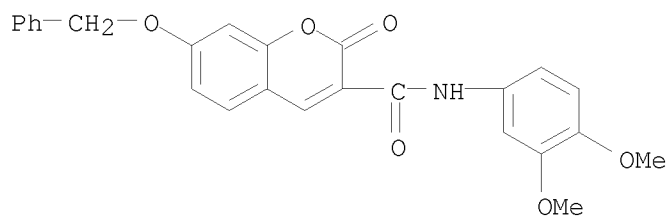
RN 1136858-84-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-methylethyl)phenyl]-2-oxo-7-(phenylmethoxy)- (CA INDEX NAME)



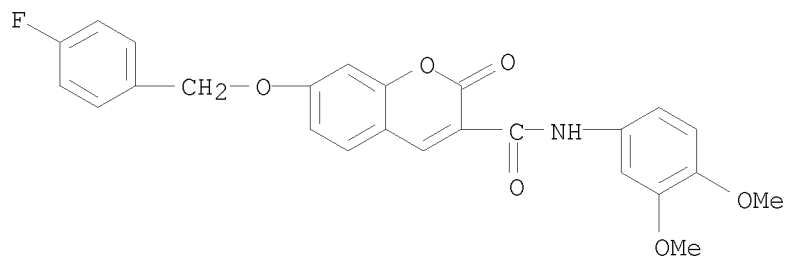
RN 1136858-93-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethoxyphenyl)-2-oxo-7-(phenylmethoxy)- (CA INDEX NAME)



RN 1136859-08-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethoxyphenyl)-7-[(4-fluorophenyl)methoxy]-2-oxo- (CA INDEX NAME)



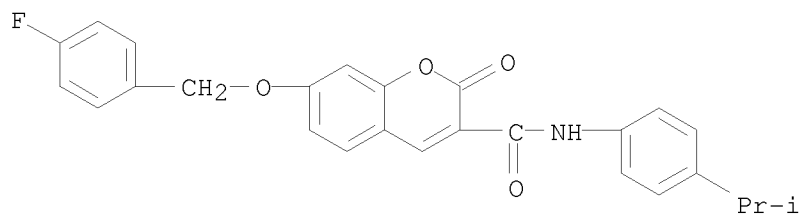
RN 1136859-13-6 CAPLUS

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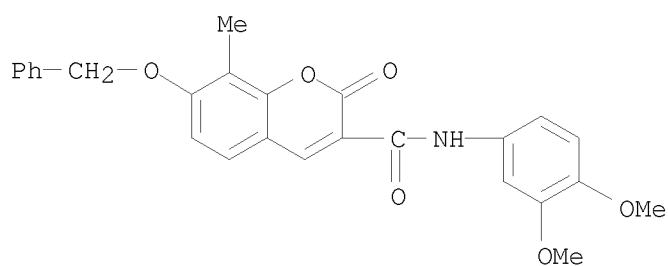
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10/513699



RN 1136859-18-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethoxyphenyl)-8-methyl-2-oxo-7-(phenylmethoxy)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:149171 CAPLUS

DOCUMENT NUMBER: 151:338140

TITLE: Synthesis and properties of some aromatic polyamides with coumarin chromophores

AUTHOR(S): Nechifor, Marioara

CORPORATE SOURCE: "Petru Poni" Institute of Macromolecular Chemistry, Iasi, 700487, Rom.

SOURCE: Reactive & Functional Polymers (2009), 69(1), 27-35
CODEN: RFPOF6; ISSN: 1381-5148

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

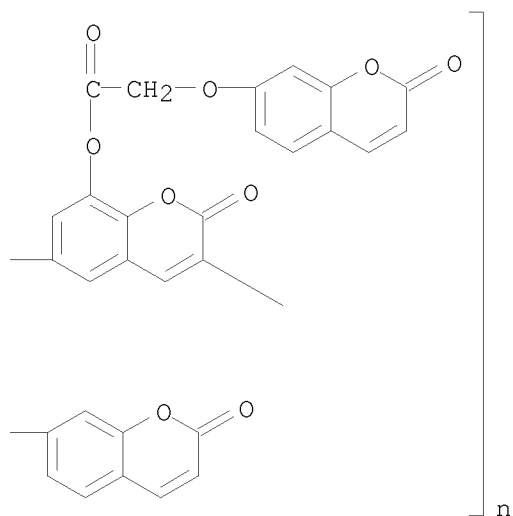
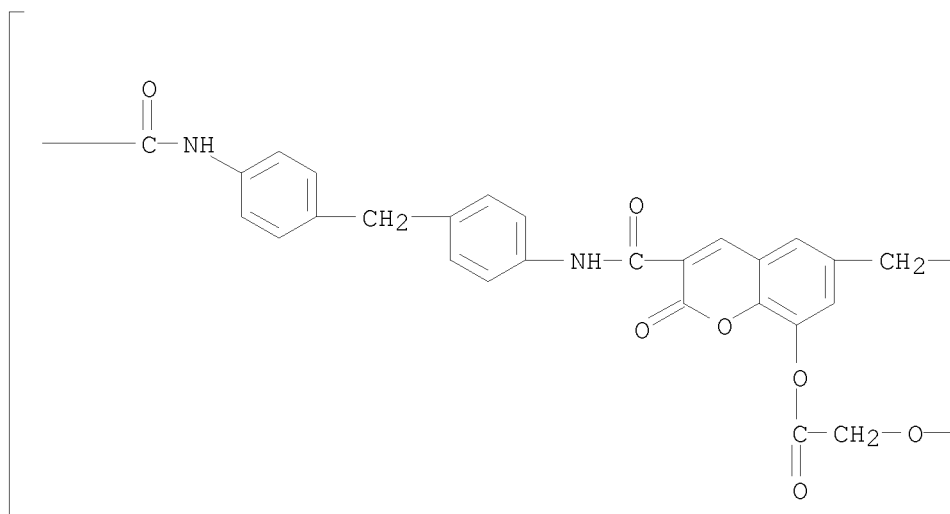
AB A novel monomer diacid, 6,6'-methylenebis{2-oxo-8-{2-[(2-oxo-2H-chromen-7-yl)oxy]acetoxy}-2H-chromene-3-carboxylic acid}, having two substituents (2-oxo-2H-chromen-7-yl)oxyacetate in the aromatic moiety, was synthesized and used in a direct polycondensation reaction with various aromatic diamines using tri-Ph phosphite and pyridine as condensing agents to give a series of new aromatic polyamides with photosensitive coumarin pendent groups. Polyamide properties were investigated by DSC, TGA, GPC (gel permeation chromatog. anal.), and wide-angle X-ray scattering, viscosity and solubility measurements. The introduction of bulky side chains in the structure of aromatic polyamides led to moderate inherent viscosity values (0.40-0.87 dLg⁻¹) and increased solubility of these polymers in aprotic polar solvents such as NMP (N-methylpyrrolidone), DMAc, DMSO and DMF, and in less polar solvents like Py and THF. The good solubility of these polyamides was in agreement with their amorphous character as evidenced by X-ray diffraction diagrams. Gel permeation chromatog. evidenced high mol. wts. (49,400-63,900 g/mol) which allowed transparent, flexible and tough films to be cast from polymer solns. These aromatic copolyamides showed good thermal properties associated with glass transition temps. (T_g) in the range of 221-257 °C and the onset of decomposition in air above 390 °C. UV illumination ($\lambda > 300$ nm) of the polymer films induced crosslinking between polyamide mols. through a $[2\pi + 2\pi]$ photocycloaddn. at the C=C bond of coumarin moieties. Information concerning the photoreactive property of coumarin-containing polymers was obtained by studying the changes in the UV absorption spectra and IR spectra of irradiated polymeric films.

IT 1186488-81-2P 1186488-85-6P 1186488-87-8P

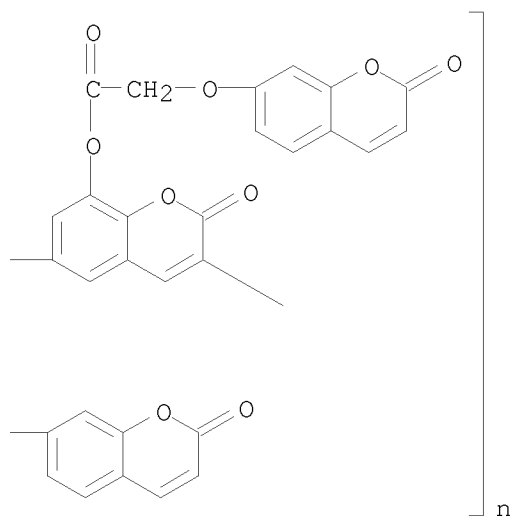
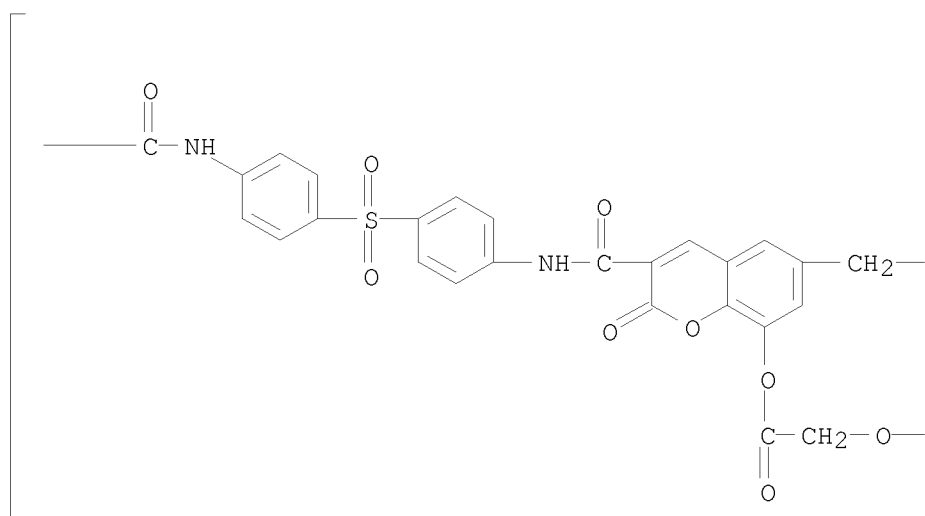
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and properties of some aromatic polyamides with coumarin chromophores)

RN 1186488-81-2 CAPLUS

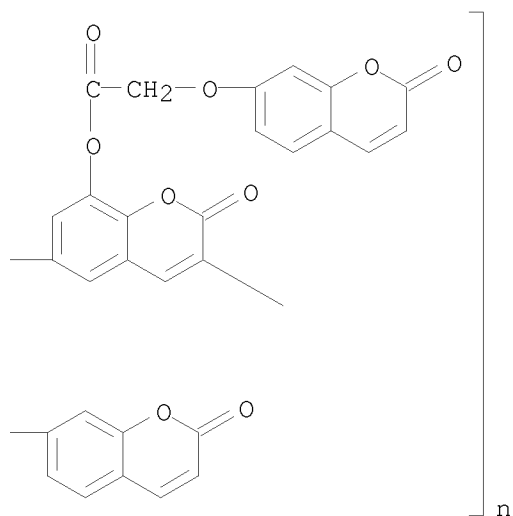
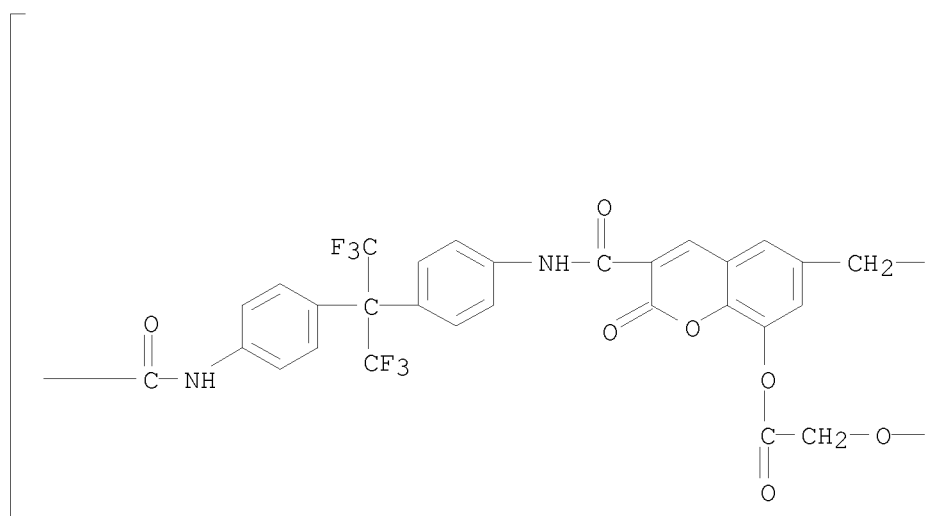
CN Poly[[2-oxo-8-[[2-[(2-oxo-2H-1-benzopyran-7-yl)oxy]acetyl]oxy]-2H-1-benzopyran-3,6-diyl]methylene[2-oxo-8-[[2-[(2-oxo-2H-1-benzopyran-7-yl)oxy]acetyl]oxy]-2H-1-benzopyran-6,3-diyl]carbonylimino-1,4-phenylenemethylene-1,4-phenyleneiminocarbonyl] (CA INDEX NAME)



RN 1186488-85-6 CAPLUS
 CN Poly[[2-oxo-8-[[2-[(2-oxo-2H-1-benzopyran-7-yl)oxy]acetyl]oxy]-2H-1-benzopyran-3,6-diyl]methylene[2-oxo-8-[[2-[(2-oxo-2H-1-benzopyran-7-yl)oxy]acetyl]oxy]-2H-1-benzopyran-6,3-diyl]carbonylimino-1,4-phenylenesulfonyl-1,4-phenyleneiminocarbonyl] (CA INDEX NAME)



RN 1186488-87-8 CAPLUS
 CN Poly[[2-oxo-8-[[2-[(2-oxo-2H-1-benzopyran-7-yl)oxy]acetyl]oxy]-2H-1-benzopyran-3,6-diyl]methylene[2-oxo-8-[[2-[(2-oxo-2H-1-benzopyran-7-yl)oxy]acetyl]oxy]-2H-1-benzopyran-6,3-diyl]carbonylimino-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenyleneiminocarbonyl] (CA INDEX NAME)



OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT:	24	THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:26277 CAPLUS

DOCUMENT NUMBER: 151:173205

TITLE: Synthesis of novel 3-substituted coumarin carboxamides with biological interest and their spectral studies

AUTHOR(S): Das, Asish R.; Medda, Arunima; Singha, Raghunath; Samanta, Anuva; Guchhait, Nikhil

CORPORATE SOURCE: Department of Chemistry, University Colleges of Science, Calcutta University, Kolkata, 700 009, India
SOURCE: Journal of the Indian Chemical Society (2008), 85(11), 1124-1129

CODEN: JICSAH; ISSN: 0019-4522

PUBLISHER: Indian Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 151:173205

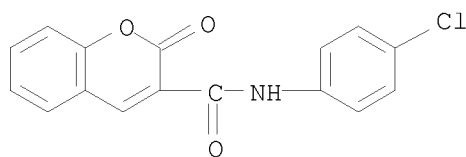
AB The 3-substituted coumarin carboxamides were prepared by a highly efficient one-pot procedure. The coupling reaction of coumarin carboxylic acids and its acid chlorides with different amines afforded amide derivs. of coumarin in moderate to high yields by using either HOBT/EDCI or NaHCO₃. In addition, the authors studied photophys. properties by steady state absorption and emission spectroscopy.

IT 1847-02-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(one-pot preparation and spectral studies of coumarin-3-carboxamides by amidation reaction of coumarin-3-carboxylic acid/chloride with amines)

RN 1847-02-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)

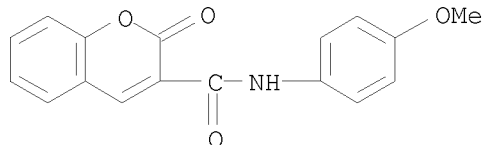


IT 1846-94-2P 54396-25-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(spectral studies; one-pot preparation and spectral studies of coumarin-3-carboxamides by amidation reaction of coumarin-3-carboxylic acid/chloride with amines)

RN 1846-94-2 CAPLUS

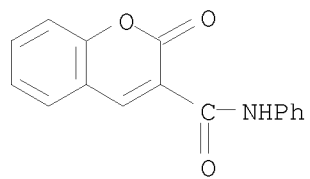
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



REFERENCE COUNT:

11

THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1392604 CAPLUS

DOCUMENT NUMBER: 150:437693

TITLE: Metabolism of nicousamide in rat and human liver in vitro

AUTHOR(S): Li, Sheng; Hu, Jinping; Chen, Hui; Li, Yan

CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China

SOURCE: Yaoxue Xuebao (2008), 43(9), 912-916

CODEN: YHHPAL; ISSN: 0513-4870

PUBLISHER: Yaoxue Xuebao Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

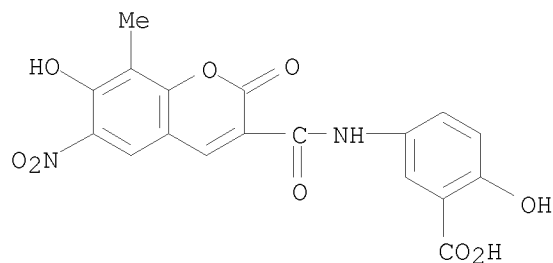
AB This paper is aimed to study the metabolic kinetics of nicousamide in rat liver microsomes and cytosol and to identify the major metabolite and drug metabolizing enzymes involved in the metabolism of nicousamide in rat and human liver microsomes by selective inhibitors in vitro. The concentration of nicousamide was determined by HPLC-UV method. The metabolite of nicousamide in rat and human liver microsomes was isolated and identified by LC-MS/MS. The major metabolite of nicousamide in rat and human liver microsomes was identified to be 3-(3'-carboxy-4'-hydroxy-anilino-carbonyl)-6-amino-7-hydroxy-8-methyl-coumarin (M1). The metabolite of nicousamide in rat plasma, urine, bile and liver was consistent with M1. The metabolism of nicousamide can be catalyzed by several reductases, including CYP450 reductases, cytochrome b5 reductases and CYP2C6 in rat liver microsomes, as well as xanthine oxidase and DT-diaphorase in rat liver cytosol.

IT 704881-43-6, Nicousamide

RL: PKT (Pharmacokinetics); BIOL (Biological study)
(metabolism of nicousamide in rat and human liver in vitro)

RN 704881-43-6 CAPLUS

CN Benzoic acid, 2-hydroxy-5-[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



10/513699

L4 ANSWER 14 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1249115 CAPLUS

DOCUMENT NUMBER: 150:15679

TITLE: Carbonic anhydrase inhibitors: Inhibition of Plasmodium falciparum carbonic anhydrase with aromatic/heterocyclic sulfonamides-in vitro and in vivo studies

AUTHOR(S): Krungkrai, Jerapan; Krungkrai, Sudaratana R.; Supuran, Claudiu T.

CORPORATE SOURCE: Department of Biochemistry, Faculty of Medicine, Chulalongkorn University, Pathumwan, Bangkok, 10330, Thailand

SOURCE: Bioorganic & Medicinal Chemistry Letters (2008), 18(20), 5466-5471

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A library of aromatic/heterocyclic sulfonamides possessing a large diversity of scaffolds has been assayed for inhibition of the carbonic anhydrase (CA, EC 4.2.1.1) from the malaria parasite Plasmodium falciparum (pfCA). Low micromolar and submicromolar in vitro inhibitors were detected, whereas several compds. showed ex vivo anti-P. falciparum activity, in cell cultures. One derivative, i.e., 4-(3,4-dichlorophenylureido)thioureido-benzenesulfonamide was an effective in vitro pfCA inhibitor (K I of 0.18 μ M), inhibited the ex vivo growth of P. falciparum with an IC50 of 1 μ M, and was also effective as an antimalarial agent in mice infected with P. berghei, an animal model of human malaria infection, with an ID50 of 10 mg/kg (chloroquine as standard showed an ID50 of 5 mg/kg). By inhibiting the first step of pyrimidine nucleotide biosyntheses, i.e., the CA-mediated carbamoylphosphate biosynthesis, sulfonamide inhibitors of the protozoan CAs may have potential for the development of novel therapies of human malaria.

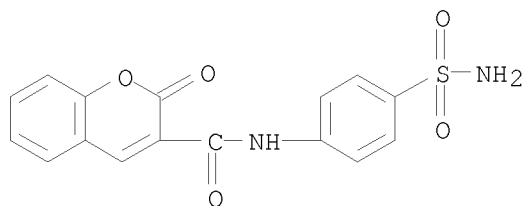
IT 111456-11-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Plasmodium falciparum carbonic anhydrase inhibition with aromatic/heterocyclic sulfonamides)

RN 111456-11-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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<12/04/2007>

Erich Leese

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L4 ANSWER 15 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:897283 CAPLUS

DOCUMENT NUMBER: 150:320734

TITLE: Pharmacokinetics of nicousamide in rats

AUTHOR(S): Sheng, Li; Niu, Changqun; Hu, Jinping; Chen, Hui; Li, Yan

CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China

SOURCE: Shanxi Yike Daxue Xuebao (2007), 38(7), 599-603

CODEN: SDXYF5; ISSN: 1007-6611

PUBLISHER: Shanxi Yike Daxue Xuebao Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB A rapid and sensitive high-performance liquid chromatog. with UV detector (HPLC-UV) for determining nicousamide in plasma was established to study the pharmacokinetic properties of nicousamide in rats. After administrated with an oral dose of 30, 100, or 300 mg/kg of nicousamide or an i.v. dose of 10 mg/kg, the plasma nicousamide was detected to explore its pharmacokinetics. The calibration curves were linear over the concentration range of 20-2000 ng/mL of nicousamide with the intra- and inter-day precisions less than 10%. The recovery of nicousamide in plasma was 95-105%. Following the oral doses of 30, 100, or 300 mg/kg, AUC and Cmax of nicousamide was increased proportionally with doses. Nicousamide was absorbed and eliminate more rapidly in female than in male rats. The absolute bioavailability of nicousamide after i.g. administration was 1.34% in male rats and 0.67% in female rats, resp. HPLC-UV method for determining

nicousamide

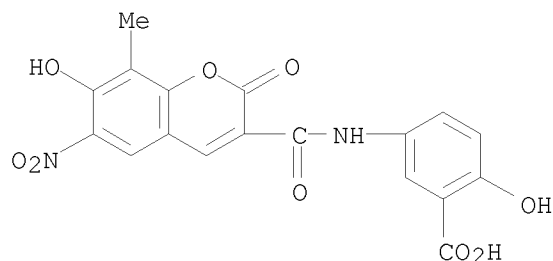
in rat plasma was sensitive, stable and rapid. Nicousamide in rats at single oral doses of 30-300 mg/kg was a linear pharmacokinetics. The absolute bioavailability of nicousamide was lower.

IT 704881-43-6, Nicousamide

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacokinetics of nicousamide in rats)

RN 704881-43-6 CAPLUS

CN Benzoic acid, 2-hydroxy-5-[[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



10/513699

L4 ANSWER 16 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:713380 CAPLUS

DOCUMENT NUMBER: 150:398303

TITLE: Synthesis and electron impact of mass spectra of some heterocycles containing coumarin moiety

AUTHOR(S): Ibrahim, H. K.; Hassanen, J. A.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Suez Canal University, Ismailia, Egypt

SOURCE: Egyptian Journal of Chemistry (2007), 50(3), 403-423
CODEN: EGJCA3; ISSN: 0449-2285

PUBLISHER: National Information and Documentation Centre

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 150:398303

AB Coumarin derivs. have attracted intense interest in the recent years for their diverse pharmacol. properties. The present work describes the synthesis and electron impact mass spectrometry of some heterocycles containing a coumarin moiety using 6-bromo-3-ethoxycarbonyl coumarin as a key starting material.

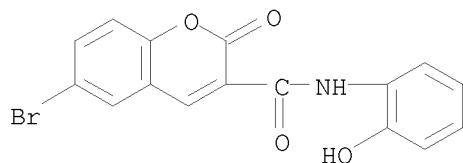
IT 312616-85-6P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and electron impact spectrometry of some heterocycles prepared from Et bromocoumarin carboxylate via heterocyclization with thiourea, dihydroxybenzene or aminophenol)

RN 312616-85-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(2-hydroxyphenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:572543 CAPLUS

DOCUMENT NUMBER: 149:44290

TITLE: Novel 3-Carboxamide-coumarins as Potent and Selective FXIIa Inhibitors

AUTHOR(S): Robert, Severine; Bertolla, Carine; Masereel, Bernard; Dogne, Jean-Michel; Pochet, Lionel

CORPORATE SOURCE: Department of Pharmacy, Drug Design and Discovery Center, FUNDP, University of Namur, Namur, B-5000, Belg.

SOURCE: Journal of Medicinal Chemistry (2008), 51(11), 3077-3080

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 149:44290

AB Recently, FXIIa was highlighted as an original attractive target for the development of new anticoagulant drugs with low rates of therapy-related hemorrhages. In this work, we describe the development of a new series of 3-carboxamide-coumarins that are the first potent and selective nonpeptidic inhibitors of FXIIa.

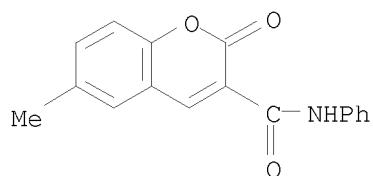
IT 38485-81-3P 38485-82-4P 38485-84-6P
 38485-86-8P 38485-89-1P 38485-98-2P
 54396-25-7P 87872-57-9P 94108-86-8P
 301818-26-8P 313954-47-1P 893666-02-9P
 1032692-45-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(carboxamide-coumarins as FXIIa inhibitors)

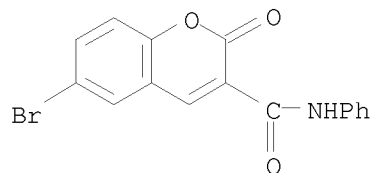
RN 38485-81-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-2-oxo-N-phenyl- (CA INDEX NAME)



RN 38485-82-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-phenyl- (CA INDEX NAME)

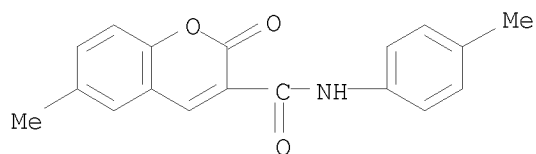


RN 38485-84-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-N-(4-methylphenyl)-2-oxo- (CA

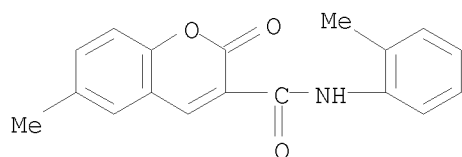
10/513699

INDEX NAME)



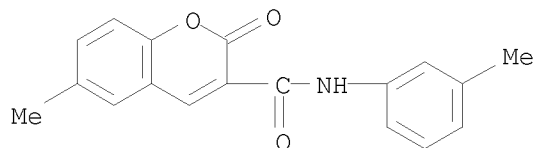
RN 38485-86-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



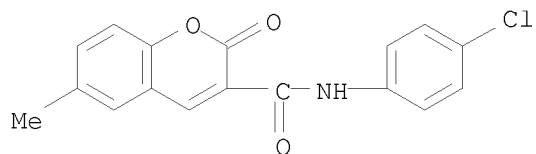
RN 38485-89-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-98-2 CAPLUS

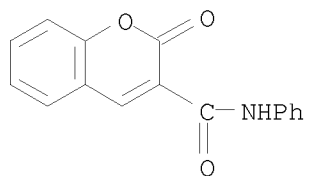
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-6-methyl-2-oxo- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

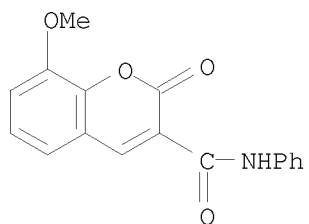
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



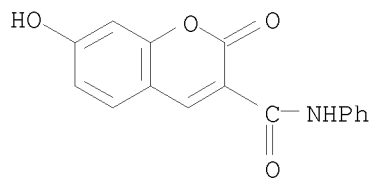
RN 87872-57-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)



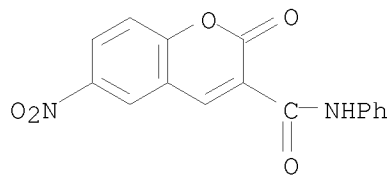
RN 94108-86-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-2-oxo-N-phenyl- (CA INDEX NAME)



RN 301818-26-8 CAPLUS

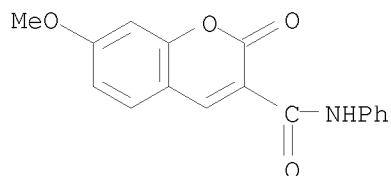
CN 2H-1-Benzopyran-3-carboxamide, 6-nitro-2-oxo-N-phenyl- (CA INDEX NAME)



RN 313954-47-1 CAPLUS

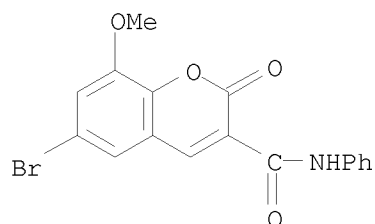
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



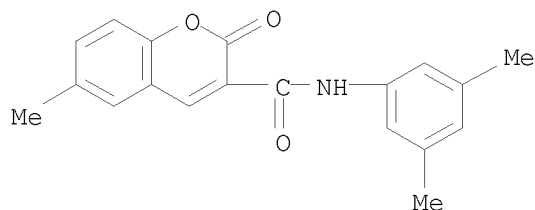
RN 893666-02-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-8-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)



RN 1032692-45-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3,5-dimethylphenyl)-6-methyl-2-oxo- (CA INDEX NAME)

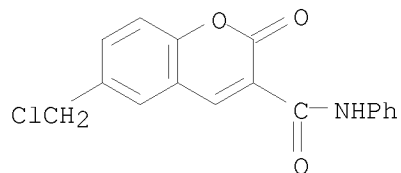


IT 176770-48-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(carboxamide-coumarins as FXIIa inhibitors)

RN 176770-48-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-(chloromethyl)-2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

<12/04/2007>

Erich Leese

10/513699

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 18 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:510997 CAPLUS

DOCUMENT NUMBER: 149:88394

TITLE: Calix[6]arene derivative as chromogenic sensor for anti-hypertensive drugs

AUTHOR(S): Menon, S. K.; Jose, P.; Harikrishnan, U.; Pal, U.

CORPORATE SOURCE: Department of Chemistry, School of Sciences, Gujarat University, Ahmedabad, 380 009, India

SOURCE: Indian Journal of Chemistry, Section A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical Chemistry (2008), 47A(2), 246-250

CODEN: ICACEC; ISSN: 0376-4710

PUBLISHER: National Institute of Science Communication and Information Resources

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 149:88394

AB A simple, rapid, and sensitive spectrophotometric method was developed for the determination of atenolol, propranolol hydrochloride and metoprolol tartrate.

The method is based on the reaction of these drugs as n-electron donors with acceptor groups on macrocyclic ring of calixarene. Due to the rapid development of color at ambient temps., the chromogenic calix[6]arene derivative can be used for the determination of these β -adrenergic blocking drugs. The association consts. (K_{AD}) and free energies for the complexes have been determined. The proposed method can be used to determine the drugs in pharmaceutical tablets and urine.

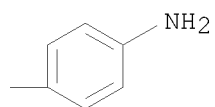
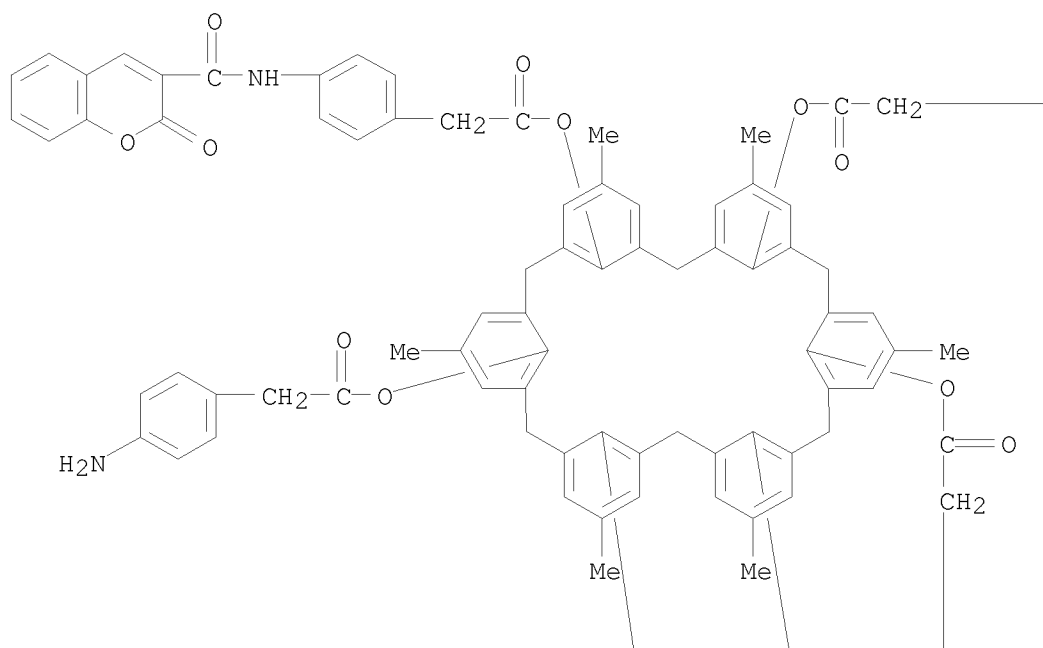
IT 1033425-86-3P

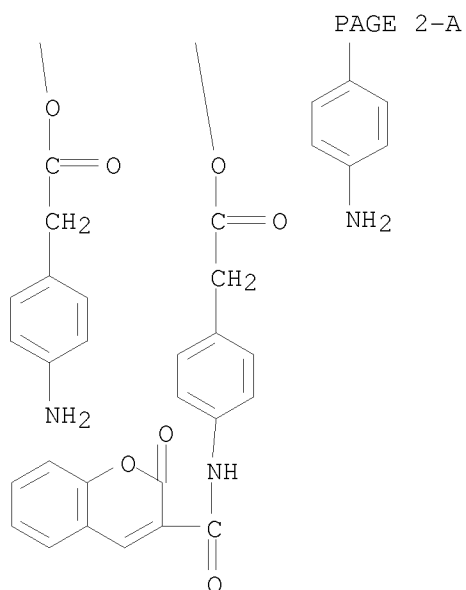
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)

(determination of β -adrenergic in tablets and urine by spectroscopy using calix[6]arene derivative as chromogenic sensor)

RN 1033425-86-3 CAPLUS

CN Benzeneacetic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 1,1'-[38,39,41,42-tetrakis[[2-(4-aminophenyl)acetyl]oxy]-5,11,17,23,29,35-hexamethylheptacyclo[31.3.1.13,7.19,13.115,19.121,25.127,31]dotetraconta-1(37),3,5,7(42),9,11,13(41),15,17,19(40),21,23,25(39),27,29,31(38),33,35-octadecaene-37,40-diyl] ester (CA INDEX NAME)





REFERENCE COUNT:

32

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 19 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:102720 CAPLUS

DOCUMENT NUMBER: 150:19968

TITLE: Synthesis and electron impact mass spectra of some heterocycles containing coumarin moiety

AUTHOR(S): Ibrahim, H. K.; Hassanen, J. A.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Suez Canal University, Ismailia, Egypt

SOURCE: Afinidad (2007), 64(527), 60-70

CODEN: AFINAE; ISSN: 0001-9704

PUBLISHER: Asociacion de Quimicos e Ingenieros del Instituto Quimico de Sarria

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 150:19968

AB Reaction of 6-bromo-3-ethoxycarbonylcoumarin with resorcinol, thiourea and 2-aminophenol yielded 11-bromo-3-hydroxychromeno[3,2-c]chromene-6,7-dione (I), 6-bromo-3-methoxycarbonylcoumarin, 9-bromo-5-oxo-5H-4-hydroxybenzopyrano[3,4-d]pyrimidine-2-thione, and 6-bromo-3-(2-hydroxyphenylaminocarbonyl)coumarin (II), resp. Treatment of I with Et chloroacetate and acetic anhydride afforded 11-bromo-3-ethoxycarbonylmethoxy- or acetoxychromeno[3,2-c]chromen-6,7-dione. 6-Bromo-3-(benzoxazol-2-yl)coumarin was obtained by cyclization of II with phosphorus oxychloride. The electron impact mass spectra of the above compds. have also been recorded and their fragmentation pattern is discussed.

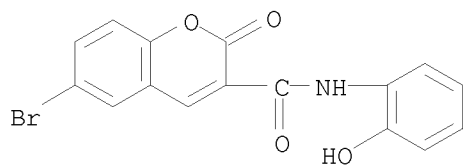
IT 312616-85-6P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and electron impact mass spectra of some heterocycles containing coumarin moiety)

RN 312616-85-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(2-hydroxyphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:88739 CAPLUS

DOCUMENT NUMBER: 148:309836

TITLE: Benzo[f]- and benzo[h]coumarin-containing poly(methyl methacrylate)s and poly(methyl methacrylate)s with pendant coumarin-containing azo dyes

AUTHOR(S): Abd-El-Aziz, Alaa S.; Shipman, Patrick O.; Neeland, Edward G.; Corkery, T. Christopher; Mohammed, Shawkat; Harvey, Pierre D.; Mohamed, Hany M.; Bedair, Ahmed H.; El-Agrody, Ahmed M.; Aguiar, Pedro M.; Kroeker, Scott
CORPORATE SOURCE: Department of Chemistry, University of British Columbia Okanagan, Kelowna, BC, Can.

SOURCE: Macromolecular Chemistry and Physics (2008), 209(1), 84-103

CODEN: MCHPES; ISSN: 1022-1352

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 148:309836

AB A series of coumarins were reacted with methacrylate or styrene derivs. to form new olefinic coumarin monomers that were polymerized using 2,2'-azobisisobutyronitrile. These polymers were highly insol. in organic solvents and displayed good thermal stability with glass-transition temps. 70-130°. Luminescence studies on some of the coumarin-containing polymers showed some fluorescence (Φ_F around 0.1). Some of the newly prepared coumarins and benzocoumarins were reacted with azo dyes to form mixed coumarin-azo dye monomer precursors. These compds. were further reacted to prepare acrylic monomers which were then polymerizedIT 1009587-00-1P 1009587-29-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(in benzocoumarin and coumarin-azo dye acrylic and styrenic monomer preparation and polymerization)

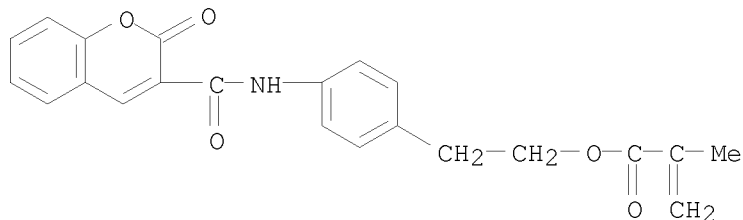
RN 1009587-00-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[4-[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]ethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 1009586-20-2

CMF C22 H19 N O5



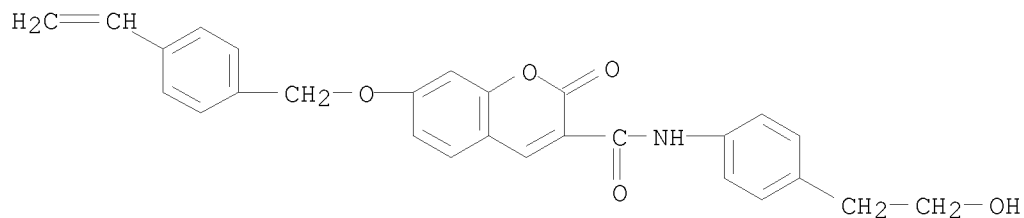
RN 1009587-29-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-[(4-ethenylphenyl)methoxy]-N-[4-(2-hydroxyethyl)phenyl]-2-oxo-, homopolymer (CA INDEX NAME)

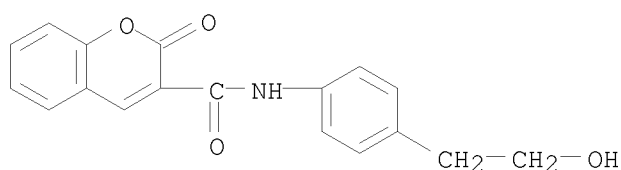
CM 1

10/513699

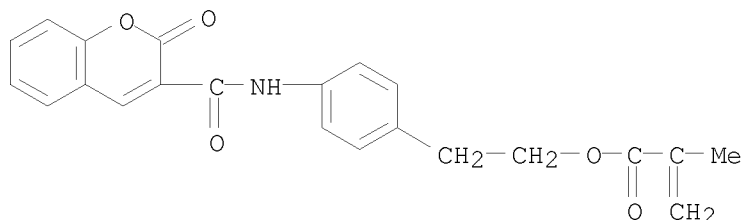
CRN 1009586-35-9
CMF C27 H23 N O5



IT 1001015-73-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(monomer starting material; in benzocoumarin and coumarin-azo dye
acrylic and styrenic monomer preparation and polymerization)
RN 1001015-73-1 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(2-hydroxyethyl)phenyl]-2-oxo- (CA
INDEX NAME)

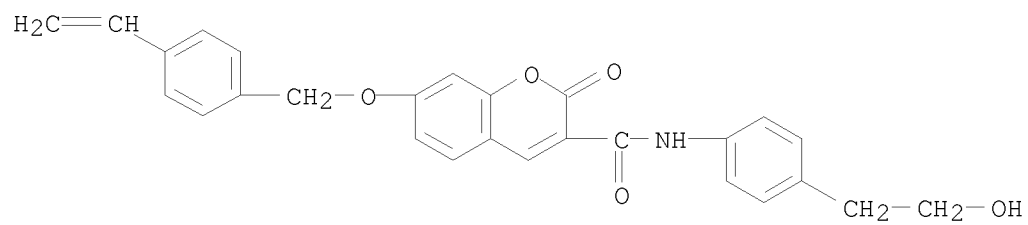


IT 1009586-20-2P 1009586-35-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(monomer; in benzocoumarin and coumarin-azo dye acrylic and styrenic
monomer preparation and polymerization)
RN 1009586-20-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-[4-[(2-oxo-2H-1-benzopyran-3-
yl)carbonyl]amino]phenyl]ethyl ester (CA INDEX NAME)



RN 1009586-35-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-[(4-ethenylphenyl)methoxy]-N-[4-(2-
hydroxyethyl)phenyl]-2-oxo- (CA INDEX NAME)

10/513699



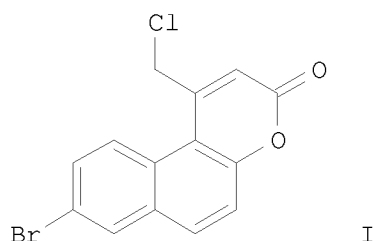
REFERENCE COUNT:

54

THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 21 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2007:1328615 CAPLUS
DOCUMENT NUMBER: 148:121548
TITLE: Synthesis of novel coumarin and benzocoumarin
derivatives and their biological and photophysical
studies
AUTHOR(S): Abd-El-Aziz, Alaa S.; Mohamed, Hany M.; Mohammed,
Shawkat; Zahid, Shamsulhaq; Ata, Athar; Bedair, Ahmed
H.; El-Agrody, Ahmed M.; Harvey, Pierre D.
CORPORATE SOURCE: Chemistry, Earth and Environmental Sciences,
University of British Columbia, Kelowna, BC, V1V 1V7,
Can.
SOURCE: Journal of Heterocyclic Chemistry (2007), 44(6),
1287-1301
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 148:121548
GI



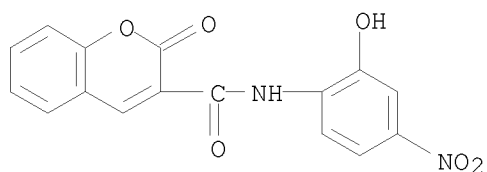
AB Several derivs. of coumarin-3N-carboxamides have been prepared via the reaction of the coumarin-3-carbonyl chloride with a number of nucleophiles. Novel double-headed coumarin-3N-carboxamides were also produced using the same method. The Pechmann-Duisberg reaction was applied to prepare new benzo[f]- benzo[h]coumarins and 4-(chloromethyl)-pyrano[3,2-c]coumarin-2-one. The reaction of 1-chloromethylbenzo[f]coumarins with cyanide anion under different reaction conditions was also investigated in order to assess its suitability for nucleophilic substitution reactions as well as ring transformation products. Synthesis of 1-((benzo[d]thiazol-2-yl)methyl)-9-hydroxybenzo[f]coumarin represented the first example of methylene bridge-head heterocycle-containing benzo[f]coumarin. Some of the newly prepared coumarins exhibited anti-bacterial activity against Gram Pos. and Gram neg. bacteria. Compound I was found to be active against all the screened bacteria. Photophys. studies were performed on selected fluorescent benzo[f]- and benzo[h]coumarins and the quantum yields were also calculated All new compds. were characterized by IR, MS, 1H and 13C NMR, as well as elemental anal.

IT 955183-71-8P 1001015-64-0P 1001015-66-2P
1001015-73-1P 1001015-75-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, antibacterial activity and fluorescence of coumarin and benzocoumarin derivs.)

RN 955183-71-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2-hydroxy-4-nitrophenyl)-2-oxo- (CA

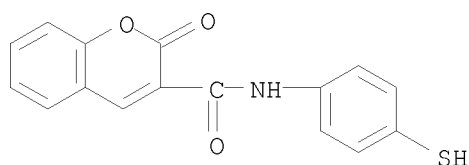
10/513699

INDEX NAME)



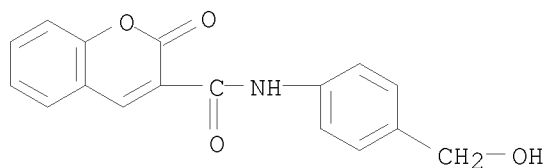
RN 1001015-64-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-mercaptophenyl)-2-oxo- (CA INDEX NAME)



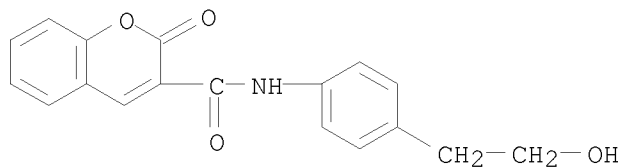
RN 1001015-66-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(hydroxymethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 1001015-73-1 CAPLUS

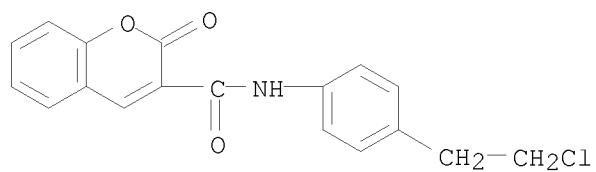
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(2-hydroxyethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 1001015-75-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(2-chloroethyl)phenyl]-2-oxo- (CA INDEX NAME)

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OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT:	51	THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 22 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1313898 CAPLUS

DOCUMENT NUMBER: 149:246421

TITLE: Study of reaction of Reformatskii reagent prepared from methyl bromocyclopentanecarboxylate and zinc with 2-oxochromene- and 6-bromo-2-oxochromene-3-carboxylic acid N-arylamides

AUTHOR(S): Shchepin, V. V.; Kirillov, N. F.; Vakhrin, M. I.;

Bayanova, O. B.; Shurov, S. N.

CORPORATE SOURCE: Perm State University, Perm, 614990, Russia

SOURCE: Russian Journal of Organic Chemistry (2007), 43(10), 1545-1547

CODEN: RJOCEQ; ISSN: 1070-4280

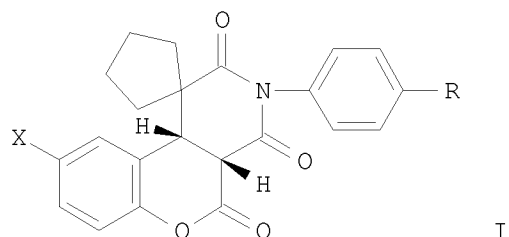
PUBLISHER: Pleiades Publishing, Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 149:246421

GI



AB Reformatskii reagent prepared from Me 1-bromocyclopentanecarboxylate and zinc reacted with 2-oxochromene- and 6-bromo-2-oxochromene-3-carboxylic acid N-arylamides yielding 3-aryl-1,1-tetramethylene- and 3-aryl-9-bromo-1,1-tetramethylene-2,3,4,4a,5,10b-hexahydro-1H-chromeno[3,4-c]pyridine-2,4,5-triones (I; X = H, Br; R = H, Br, Me, OMe) as single diastereomers.

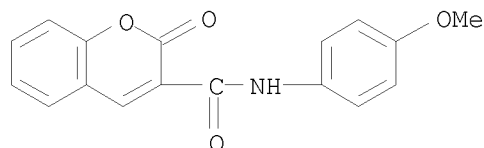
IT 1846-94-2 1847-00-3 38485-82-4
38485-85-7 38485-93-7 54396-25-7
74555-99-0 301818-11-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(spirocyclization in Reformatskii reaction of Me 1-bromocyclopentanecarboxylate with 2-oxochromene- and 6-bromo-2-oxochromene-3-carboxanilides)

RN 1846-94-2 CAPLUS

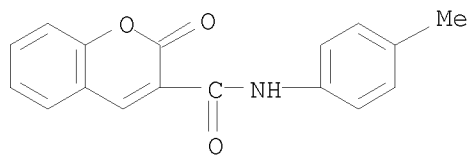
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

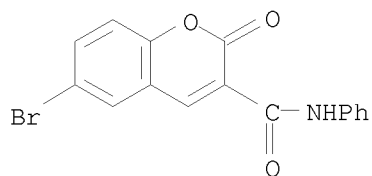
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



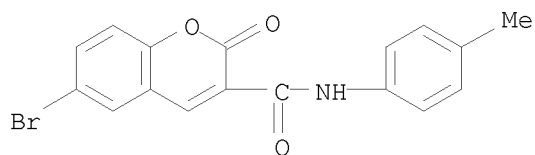
RN 38485-82-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-phenyl- (CA INDEX NAME)



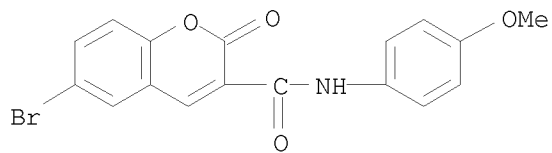
RN 38485-85-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-93-7 CAPLUS

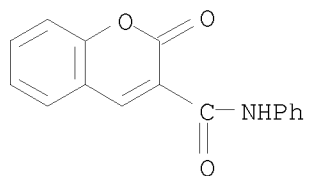
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

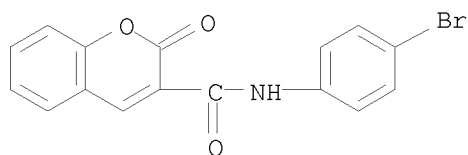
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



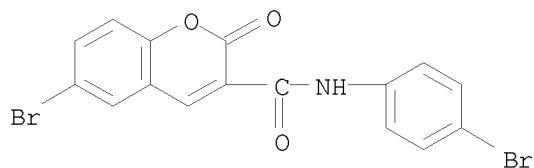
RN 74555-99-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



RN 301818-11-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1278548 CAPLUS

DOCUMENT NUMBER: 147:522112

TITLE: Preparation of coumarin and dihydroquinolinone derivatives as TGF- β 1 inhibitors and angiotensin II antagonists

INVENTOR(S): Xie, Ping; Chen, Xiaoguang; Xu, Shiping; Li, Hongyan; Li, Lanmin; Zhou, Yanli; Liu, Yue; Luo, Zhigang; Jiao, Xiaozhen; Zheng, Xuguang; Zhang, Furong

PATENT ASSIGNEE(S): Institute of Materia Medica, Chinese Academy of Medical Sciences, Peop. Rep. China

SOURCE: PCT Int. Appl., 79pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007124617	A1	20071108	WO 2006-CN839	20060428
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.:

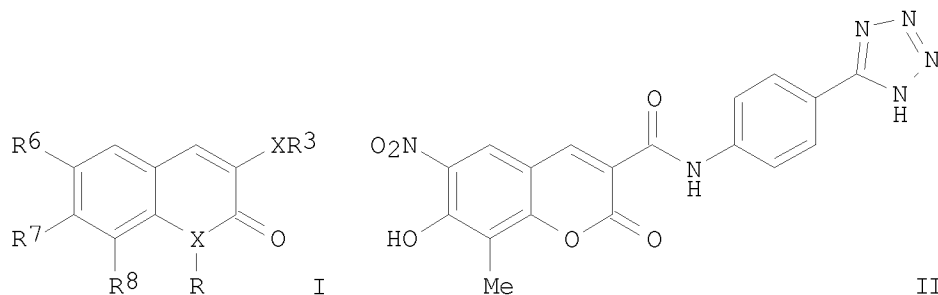
WO 2006-CN839

20060428

OTHER SOURCE(S):

CASREACT 147:522112; MARPAT 147:522112

GI



AB The title coumarin and dihydroquinolinone derivs. I [wherein X = O or NH; Y = CO or CH₂; R = absence or alkyl; R⁶-R⁸ = independently H, OH, NO₂, CO₂H, halo, alkyl, or alkoxy; R³ = (un)substituted Ph, phenylalkyl; N-pyrrolyl, imidazolyl, pyrazolyl, or N-indolyl], or pharmaceutically

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acceptable salts, hydrates, esters, or prodrugs thereof were prepared as inhibitors of transforming growth factor β 1 (TGF- β 1) and as antagonists of angiotensin II receptors for the treatment of renal diseases, diabetes, hypertension, cerebrovascular diseases, cardiovascular diseases, liver cirrhosis, or prostate hypertrophy (no data). For example, 7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-carboxylic acid was reacted with thionyl chloride, followed by the addition of 5-(4-aminophenyl)tetrazole to give II. II showed 78.0% inhibition against human renal tubule epidermal cell.

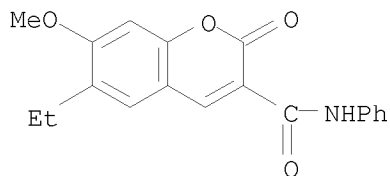
IT 937256-89-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of coumarin and dihydroquinolinone derivs. as TGF- β 1 inhibitors and angiotensin II antagonists)

RN 937256-89-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)

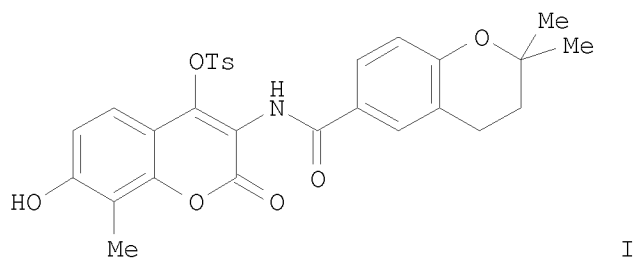


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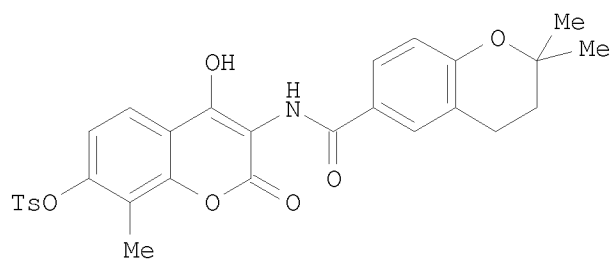
4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2007:1261470 CAPLUS
DOCUMENT NUMBER: 148:92221
TITLE: New Novobiocin Analogues as Antiproliferative Agents
in Breast Cancer Cells and Potential Inhibitors of
Heat Shock Protein 90
AUTHOR(S): Le Bras, Gaeelle; Radanyi, Christine; Peyrat,
Jean-Francois; Brion, Jean-Daniel; Alami, Mouad;
Marsaud, Veronique; Stella, Barbara; Renoir,
Jack-Michel
CORPORATE SOURCE: BioCIS-UMR 8076, Laboratoire de Chimie Therapeutique,
University of Paris-Sud, CNRS, Chatenay-Malabry,
F-92296, Fr.
SOURCE: Journal of Medicinal Chemistry (2007), 50(24),
6189-6200
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 148:92221
GI



I



II

AB Selective hsp90 inhibitors simultaneously destabilize and deplete key signaling proteins involved in cell proliferation and survival, angiogenesis, and metastasis. Investigation of novobiocin analogs lacking the noviose moiety as novel inhibitors of hsp90 was carried out. A novel series of 3-aminocoumarin analogs has been produced and screened in cell proliferation, and the mol. signature of hsp90 inhibition was assessed by depletion of estrogen receptor, HER2, Raf-1, and cdk4 in human breast cancer cells. This structure-activity relationship study highlights the crucial role of the C-4 and/or C-7 positions of coumarin which appeared to be essential for degradation of hsp90 client proteins. Removal of the noviose moiety in novobiocin together with introduction of a tosyl substituent at

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C-4 or C-7 coumarins provides two compds. (I and II) as lead structures which compared favorably with novobiocin as demonstrated by enhanced rates of cell death. The processing and activation of caspases 7 and 8 and the subsequent cleavage of PARP by I suggest stimulation of the extrinsic apoptosis pathway.

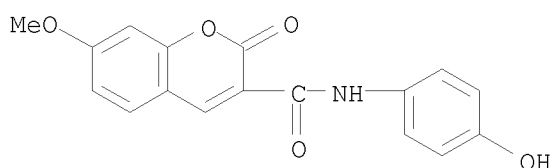
IT 704880-02-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(new novobiocin analogs as antiproliferative agents in breast cancer cells and potential inhibitors of heat shock protein 90)

RN 704880-02-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-7-methoxy-2-oxo- (CA INDEX NAME)



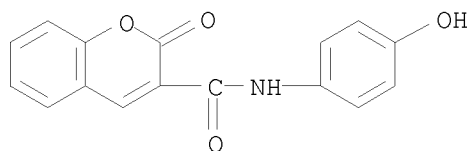
IT 1846-97-5P 1000006-86-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(new novobiocin analogs as antiproliferative agents in breast cancer cells and potential inhibitors of heat shock protein 90)

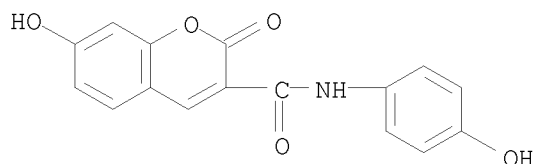
RN 1846-97-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1000006-86-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(4-hydroxyphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 20

THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

REFERENCE COUNT: 61

THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 25 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1177654 CAPLUS

DOCUMENT NUMBER: 147:448640

TITLE: Preparation of chromen-2-one derivatives as S1P1
receptor agonists

INVENTOR(S): Baenteli, Rolf; Cooke, Nigel Graham; Weiler, Sven;
Zecri, Frederic

PATENT ASSIGNEE(S): Novartis A.-G., USA; Novartis Pharma G.m.b.H.

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

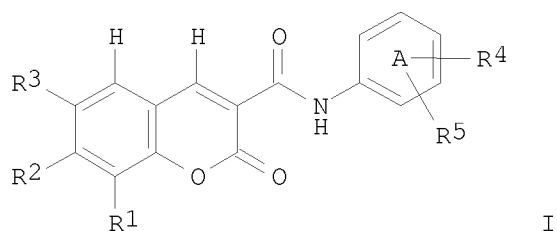
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007115820	A1	20071018	WO 2007-EP3184	20070410
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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US 20090318546	A1	20091224	US 2008-296317	20081007
CN 101421260	A	20090429	CN 2007-80012837	20081009
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KR 2009004945	A	20090112	KR 2008-724840	20081010
PRIORITY APPLN. INFO.:			GB 2006-7389	A 20060412
			WO 2007-EP3184	W 20070410

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 147:448640; MARPAT 147:448640

GI



AB The title compds. I [R1, R2 = H, halo, NO₂, etc.; or R1 and R2 form together (un)substituted cycloalkyl or heterocyclic residue; R3 = H, halo, alkyl, etc.; R4 = alkyl-NRcRd (wherein alkyl is optionally substituted by two alkyl residues on the same carbon atom wherein the two alkyl residues optionally form together with the C atom to which they are bound cycloalkyl; Rc, Rd = H, alkyl, haloalkyl, etc.; or NRcRd = (un)substituted heterocyclic residue; and R4 is in position 3 or 4); R5 = H, OH, halo, etc.; and R5 is in position 2 or 3; or R4 and R5 are in position 4 and 3, resp., and form together a heterocyclic residue; ring A comprises no heteroatom or one or two ring heteroatom; with the proviso that R1 and R2 are not both H], useful for treating or preventing disorders or diseases mediated by T lymphocytes, in particular in transplantation, were prepared E.g., a multi-step synthesis of I [R1 = Pr; R2 = OMe; R3 = H; R4 = 4-CH₂NH₂; R5 = H], starting from 2-hydroxy-4-methoxybenzaldehyde and allyl bromide, was given. Compds. I were tested in in vitro GPCR activation assay measuring GTP [γ -³⁵S] binding to membranes prepared from CHO cells expressing human EDG receptors, and showed binding affinity to S1P receptors, e.g. S1P1 receptors with an EC₅₀ of < 1 μ M. Pharmaceutical compns. comprising the compds. I were disclosed.

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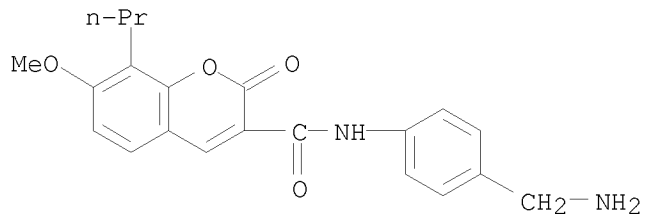
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of chromen-2-one derivs. as 51P1 receptor agonists for treating or preventing disorders or diseases mediated by T lymphocytes)

10/513699

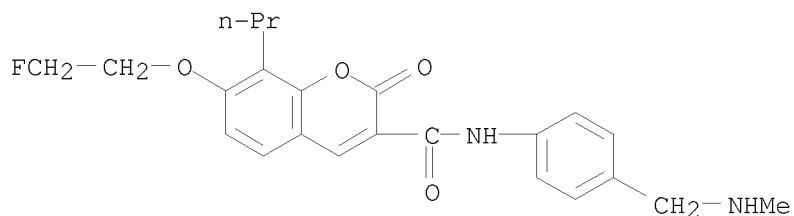
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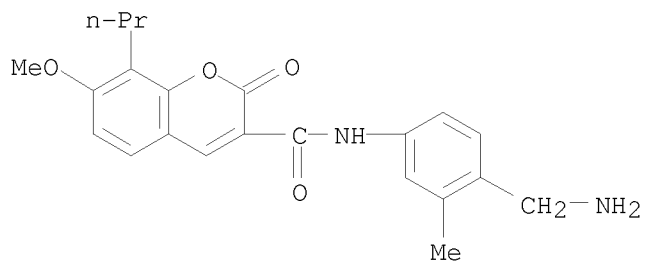
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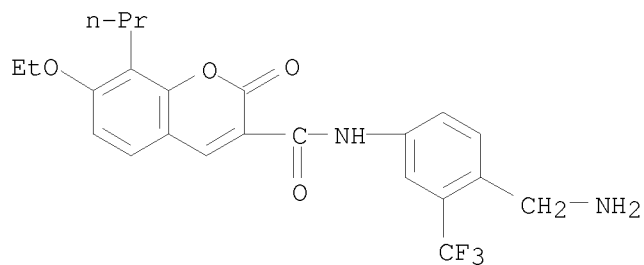
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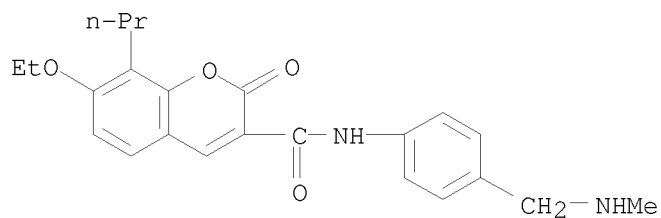
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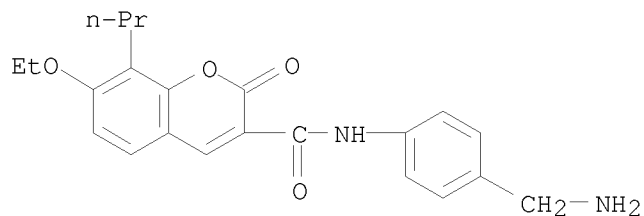
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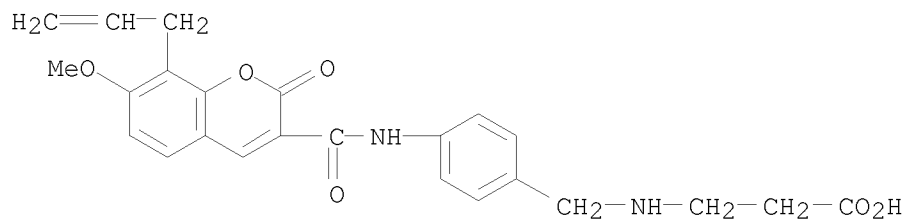
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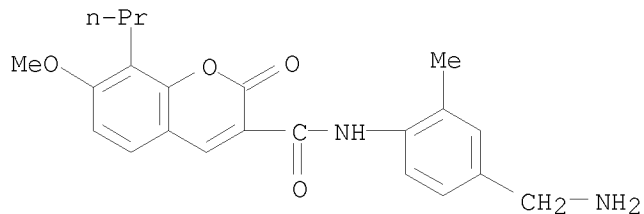
CN β -Alanine, N-[[4-[[[7-methoxy-2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]phenyl]methyl]- (CA INDEX NAME)



10/513699

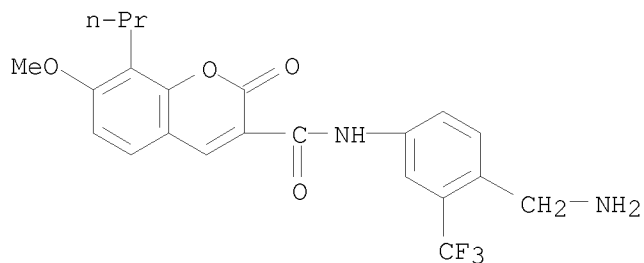
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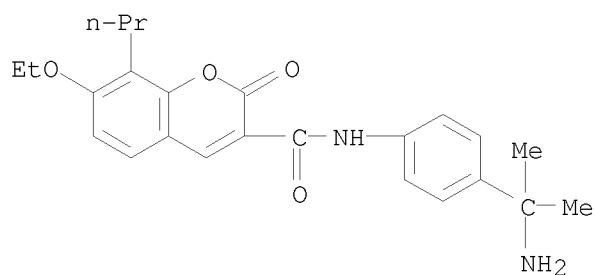
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RN 952501-12-1 CAPLUS

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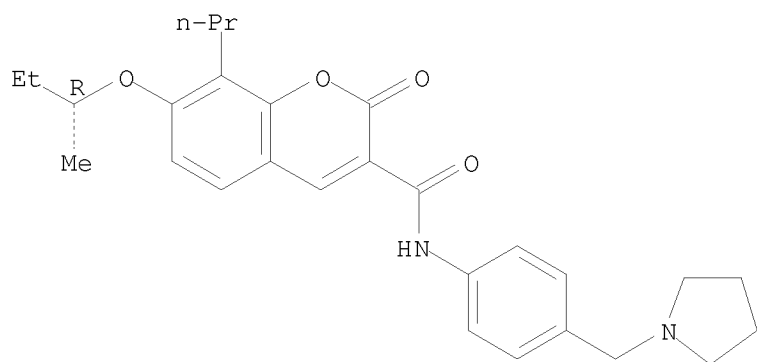


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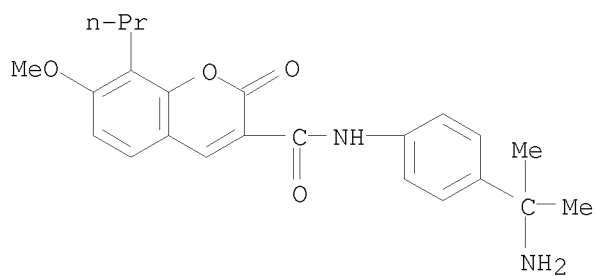
Absolute stereochemistry.

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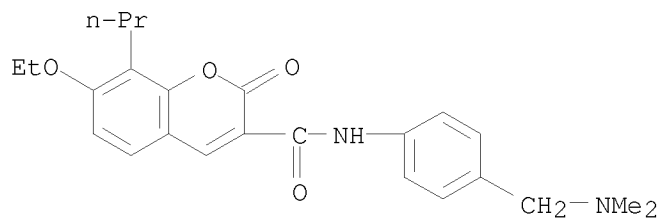
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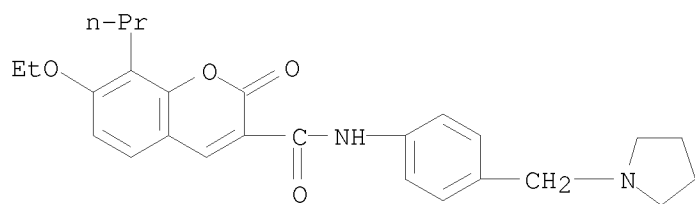
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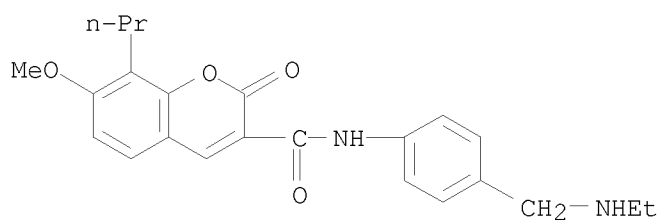
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10/513699



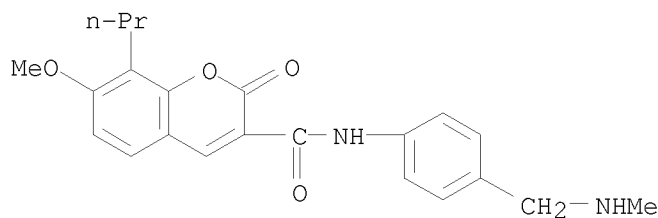
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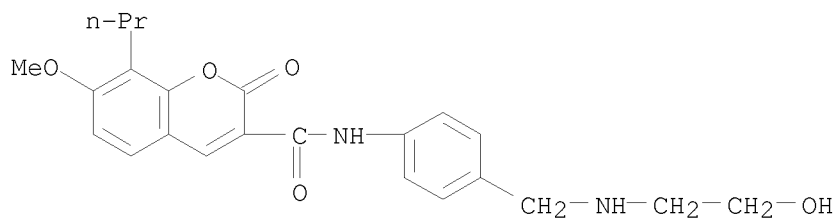
RN 952501-32-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(methylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-34-7 CAPLUS

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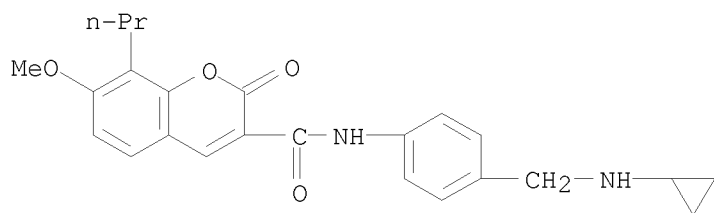


RN 952501-36-9 CAPLUS

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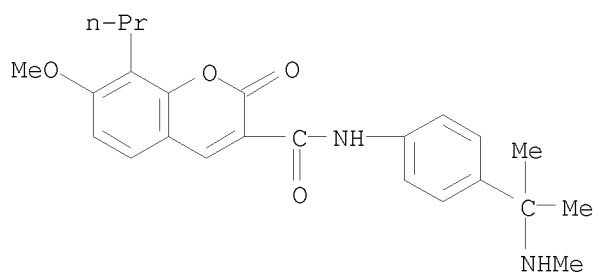
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methoxy-2-oxo-8-propyl- (CA INDEX NAME)



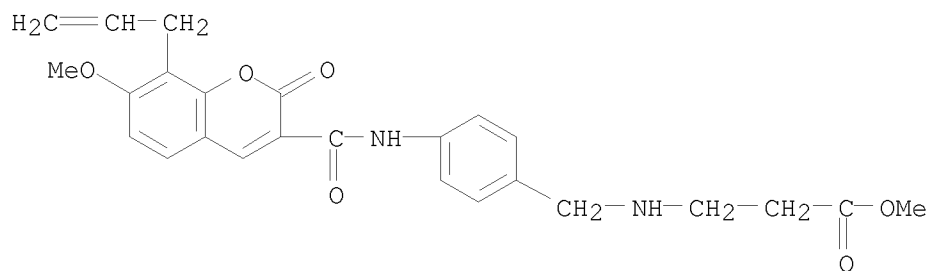
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CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[1-methyl-1-(methylamino)ethyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-40-5 CAPLUS

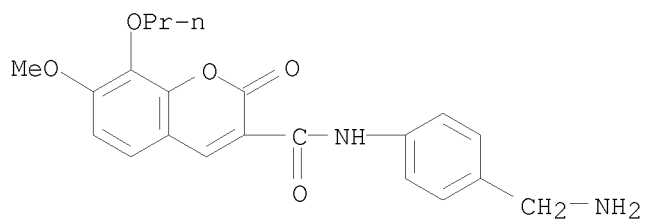
CN β -Alanine, N-[[4-[[[7-methoxy-2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]phenyl]methyl]-, methyl ester (CA INDEX NAME)



RN 952501-41-6 CAPLUS

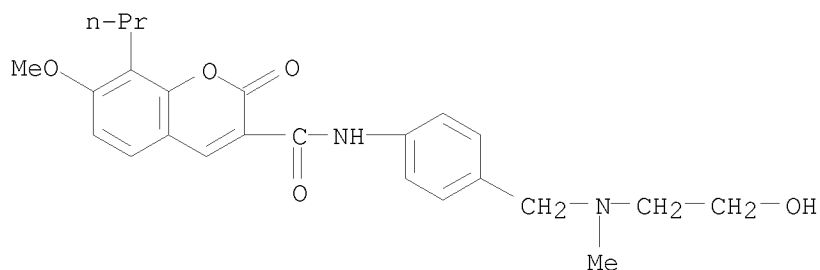
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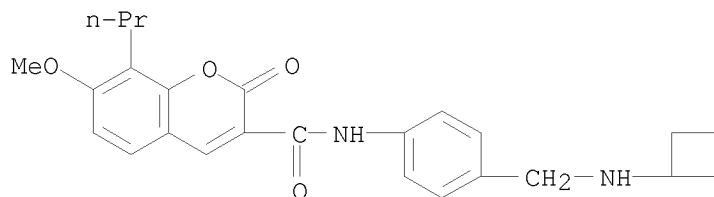
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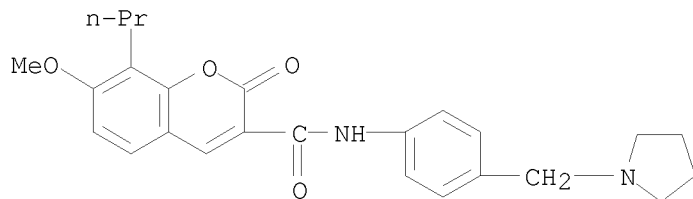
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CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclobutylamino)methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-44-9 CAPLUS

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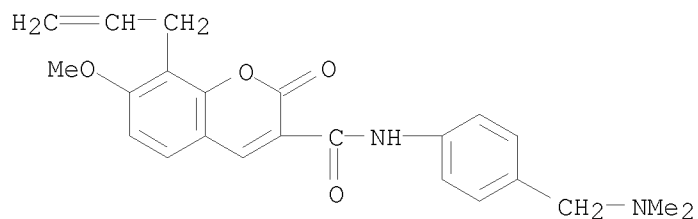
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Erich Leese

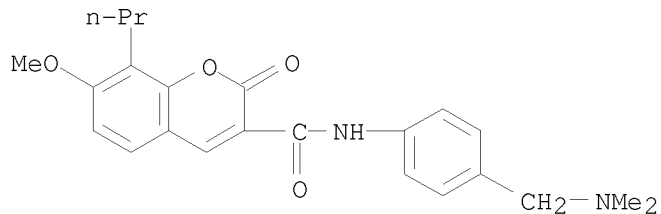
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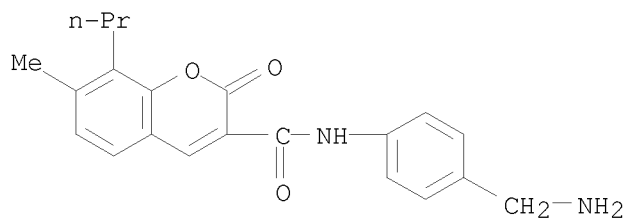
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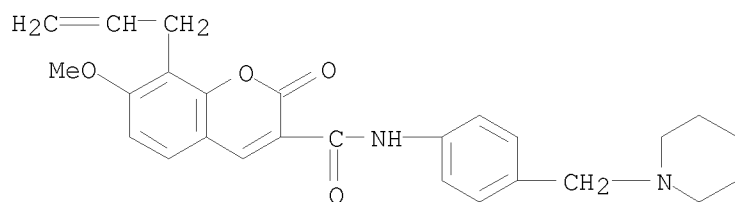
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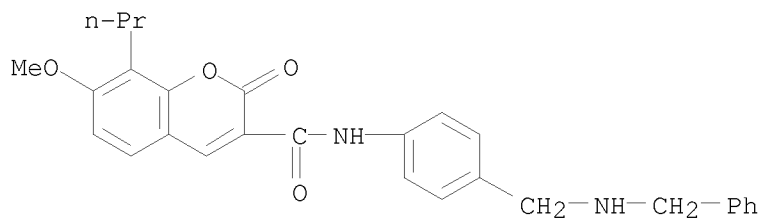
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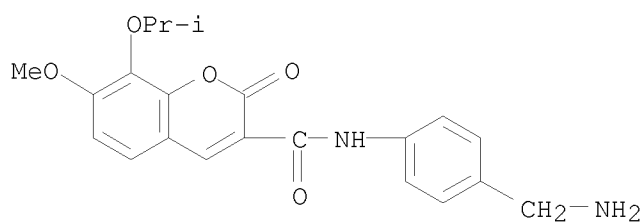


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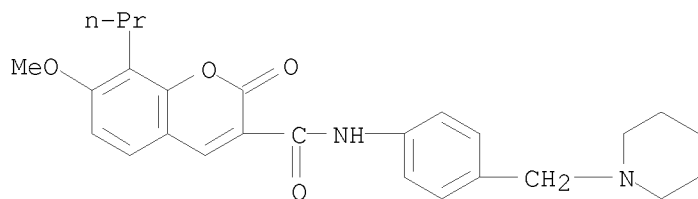
RN 952501-51-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-[4-
[[(phenylmethyl) amino]methyl]phenyl]-8-propyl- (CA INDEX NAME)



RN 952501-52-9 CAPLUS
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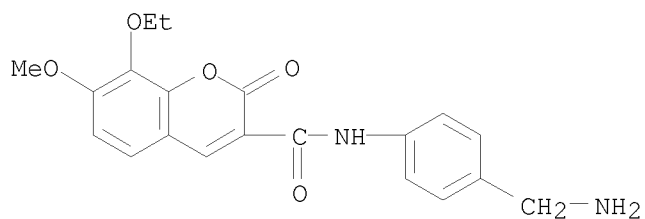


RN 952501-53-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-[4-(1-piperidinylmethyl)phenyl]-8-propyl- (CA INDEX NAME)



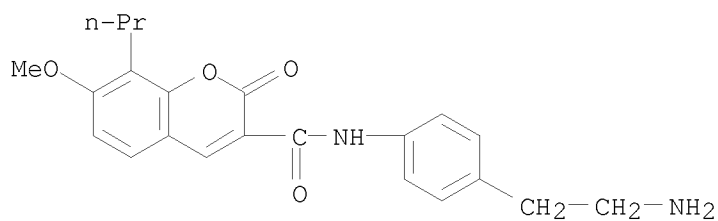
RN 952501-54-1 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699



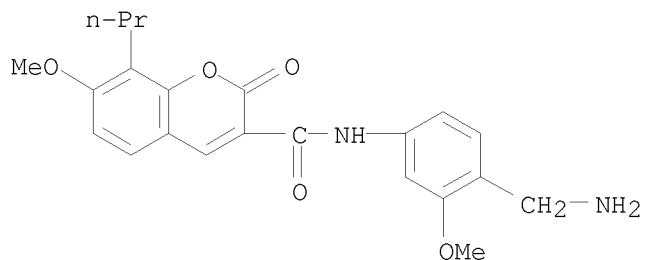
RN 952501-55-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(2-aminoethyl)phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-56-3 CAPLUS

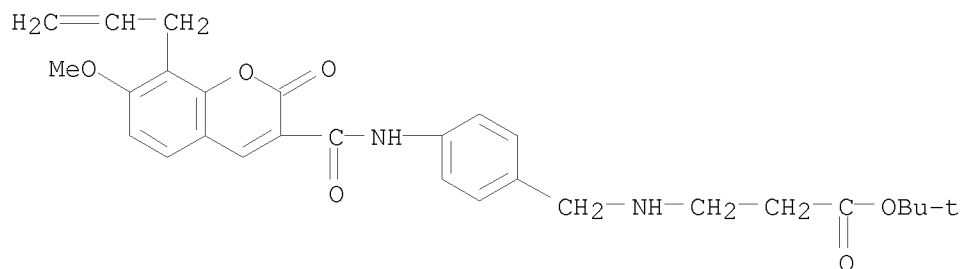
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)-3-methoxyphenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



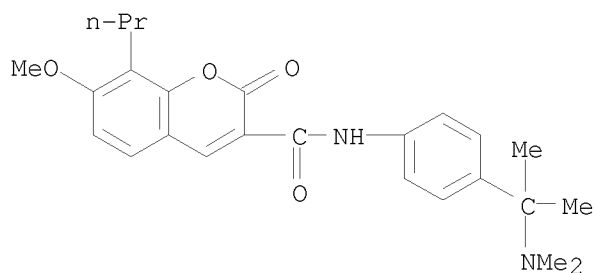
RN 952501-57-4 CAPLUS

CN β -Alanine, N-[[4-[[[7-methoxy-2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]phenyl]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

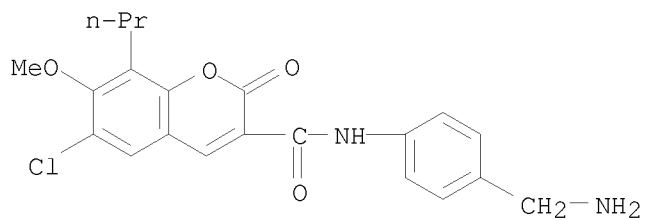
10/513699



RN 952501-58-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[1-(dimethylamino)-1-methylethyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

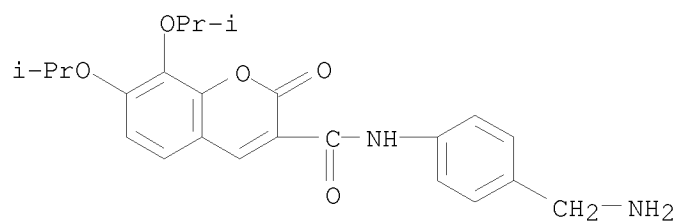


RN 952501-59-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-6-chloro-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



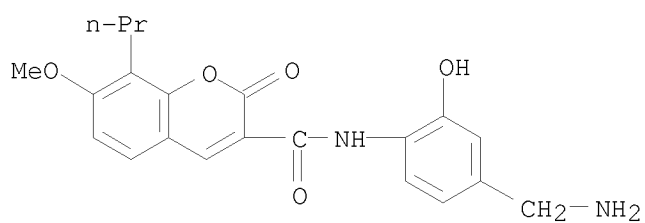
RN 952501-60-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7,8-bis(1-methylethoxy)-2-oxo- (CA INDEX NAME)

10/513699



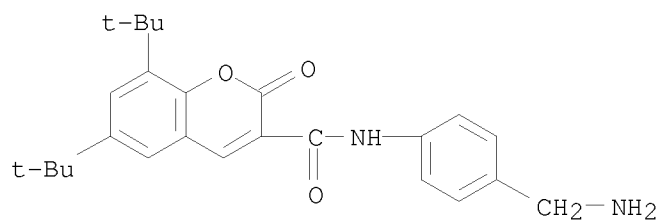
RN 952501-61-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)-2-hydroxyphenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-62-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-6,8-bis(1,1-dimethylethyl)-2-oxo- (CA INDEX NAME)

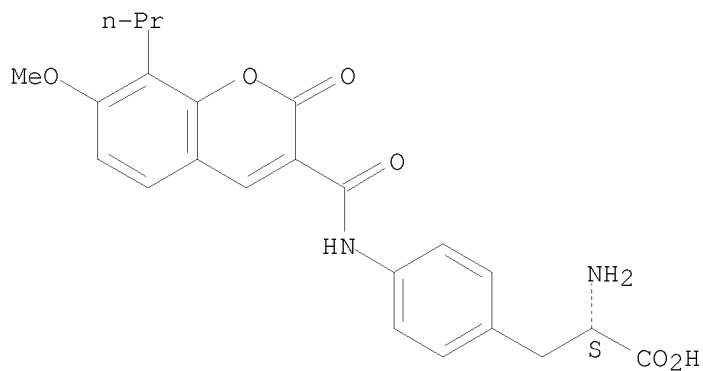


RN 952501-63-2 CAPLUS

CN L-Phenylalanine, 4-[[(7-methoxy-2-oxo-8-propyl-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

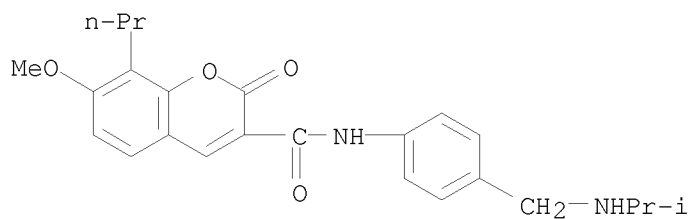
Absolute stereochemistry.

10/513699



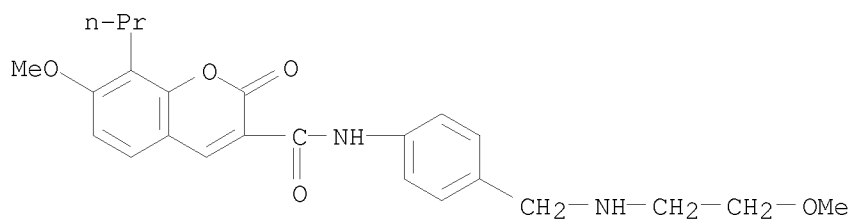
RN 952501-64-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(1-methylethyl)amino]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-65-4 CAPLUS

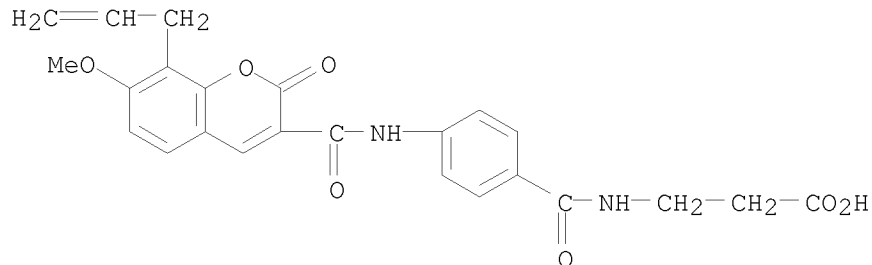
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(2-methoxyethyl)amino]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-66-5 CAPLUS

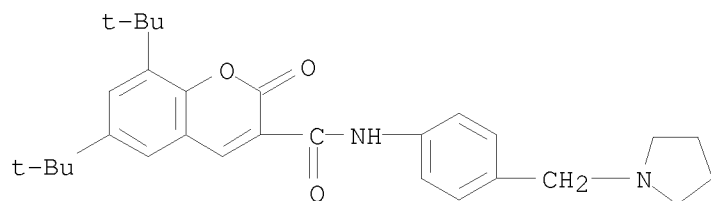
CN β -Alanine, N-[4-[[[7-methoxy-2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]benzoyl]- (CA INDEX NAME)

10/513699



RN 952501-67-6 CAPLUS

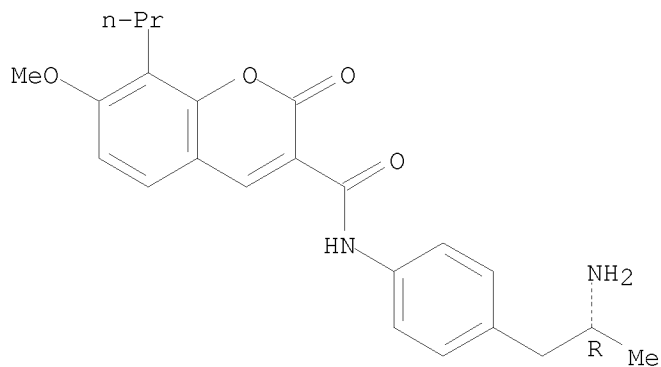
CN 2H-1-Benzopyran-3-carboxamide, 6,8-bis(1,1-dimethylethyl)-2-oxo-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)



RN 952501-68-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2R)-2-aminopropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

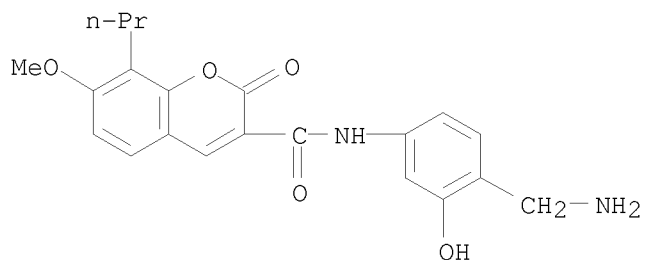
Absolute stereochemistry.



RN 952501-69-8 CAPLUS

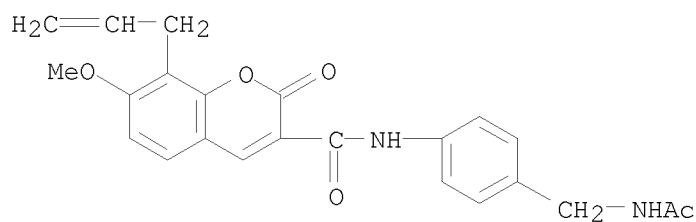
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)-3-hydroxyphenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



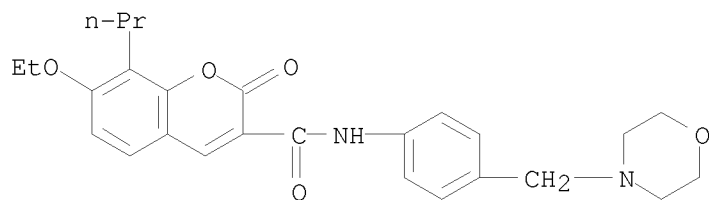
RN 952501-70-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylamino)methyl]phenyl]-7-methoxy-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



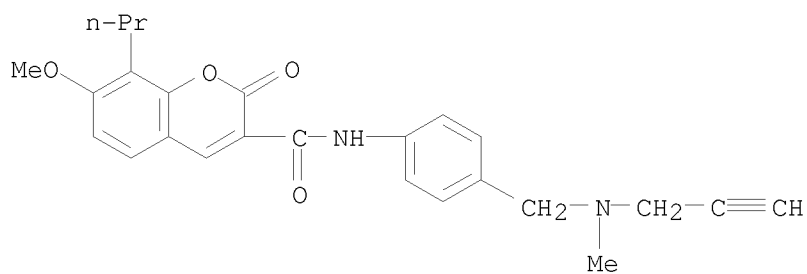
RN 952501-73-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-ethoxy-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-74-5 CAPLUS

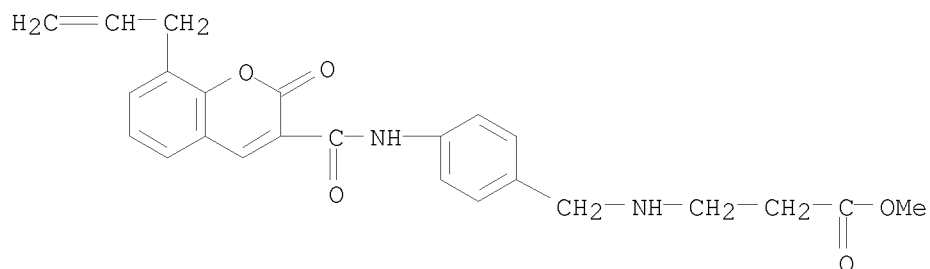
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(methyl-2-propyn-1-ylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



10/513699

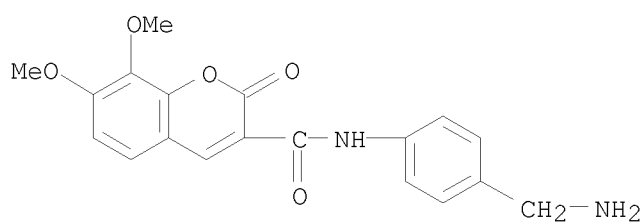
RN 952501-75-6 CAPLUS

CN β -Alanine, N-[[4-[[[2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]phenyl]methyl]-, methyl ester (CA INDEX NAME)



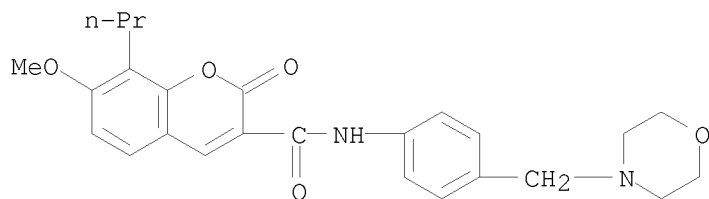
RN 952501-76-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7,8-dimethoxy-2-oxo- (CA INDEX NAME)



RN 952501-77-8 CAPLUS

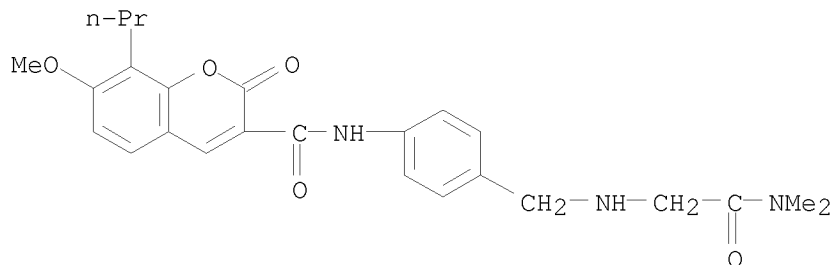
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



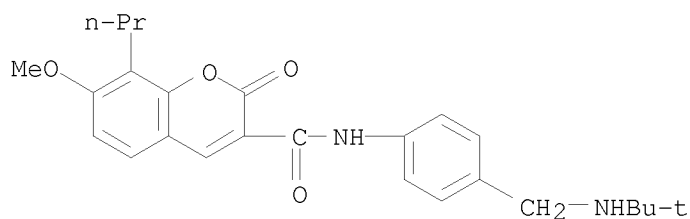
RN 952501-78-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[[2-(dimethylamino)-2-oxoethyl]amino]methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

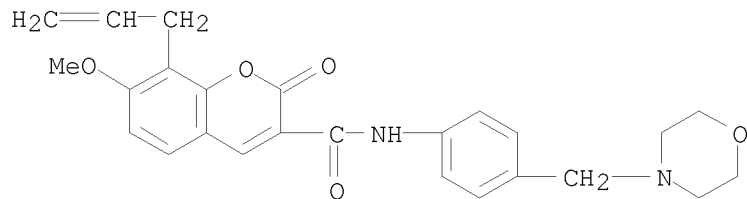
10/513699



RN 952501-79-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1,1-dimethylethyl)amino]methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

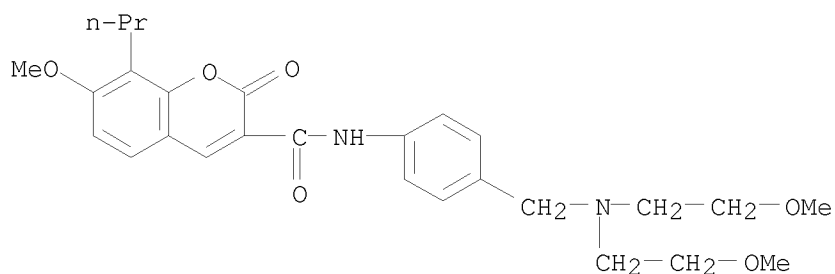


RN 952501-80-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



RN 952501-81-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[bis(2-methoxyethyl)amino]methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

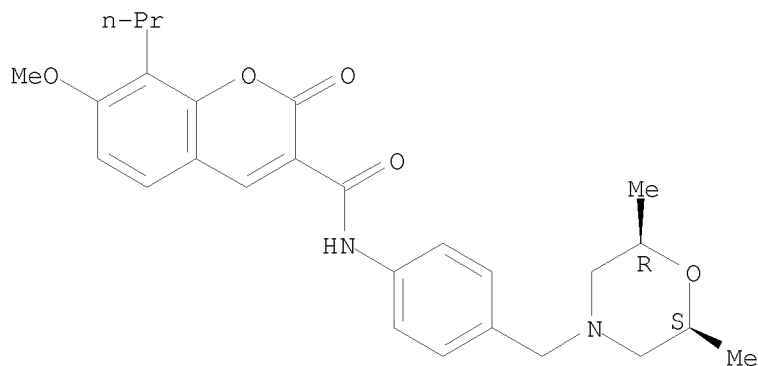
10/513699



RN 952501-83-6 CAPLUS

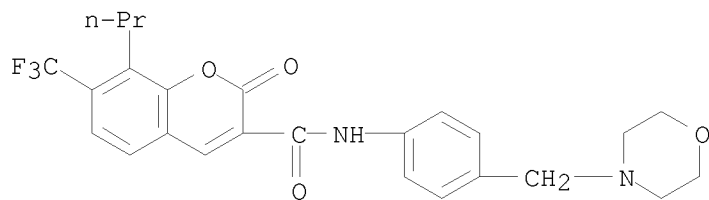
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4-methoxy-2-propyl-1-morpholinyl]methyl]phenyl]-7-methoxy-2-oxo-8-propyl-, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 952501-85-8 CAPLUS

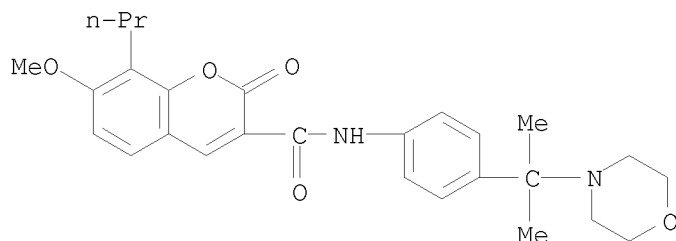
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-propyl-7-(trifluoromethyl)- (CA INDEX NAME)



RN 952501-86-9 CAPLUS

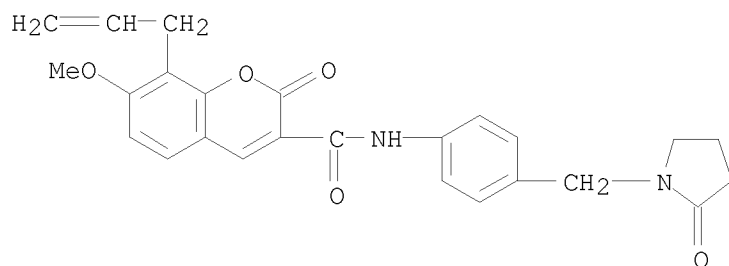
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[1-methyl-1-(4-morpholinyl)ethyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



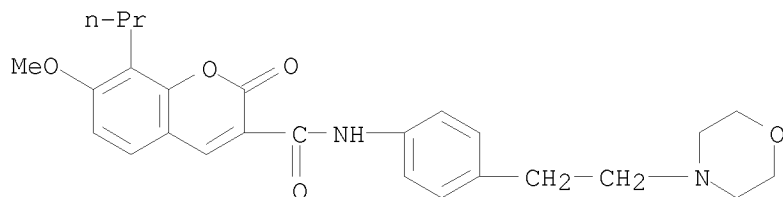
RN 952501-87-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-[4-[(2-oxo-1-pyrrolidinyl)methyl]phenyl]-8-(2-propen-1-yl)- (CA INDEX NAME)



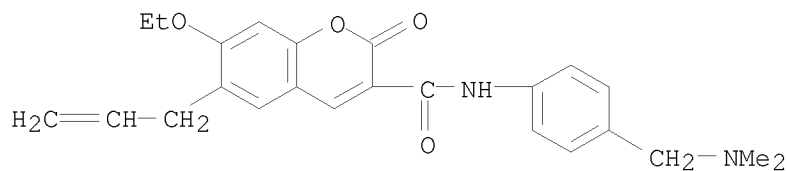
RN 952501-88-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[2-(4-morpholinyl)ethyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-90-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-ethoxy-2-oxo-6-(2-propen-1-yl)- (CA INDEX NAME)

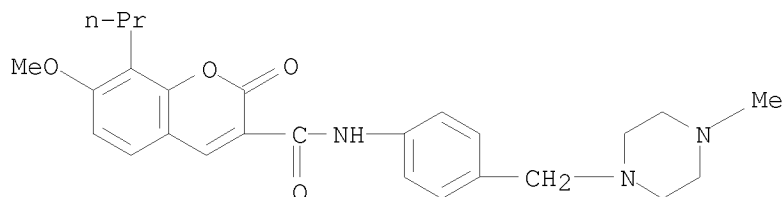


RN 952501-92-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(4-methyl-1-

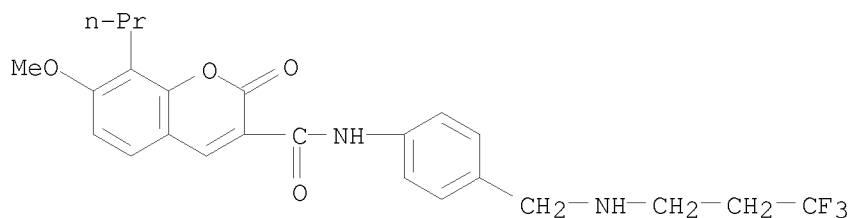
10/513699

piperazinyl)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



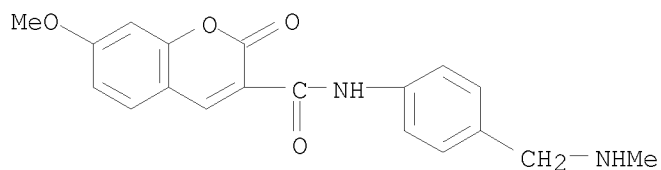
RN 952501-93-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-8-propyl-N-[4-[(3,3,3-trifluoropropyl)amino]methyl]phenyl]- (CA INDEX NAME)



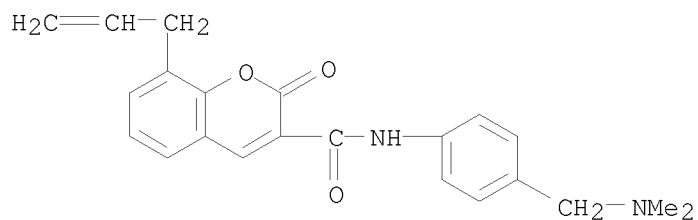
RN 952501-94-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(methylamino)methyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 952501-95-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



RN 952501-96-1 CAPLUS

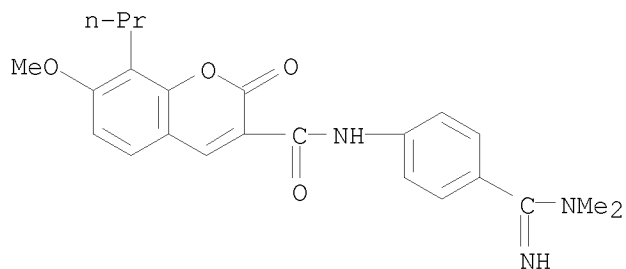
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)iminomethyl]phenyl]-7- (CA INDEX NAME)

<12/04/2007>

Erich Leese

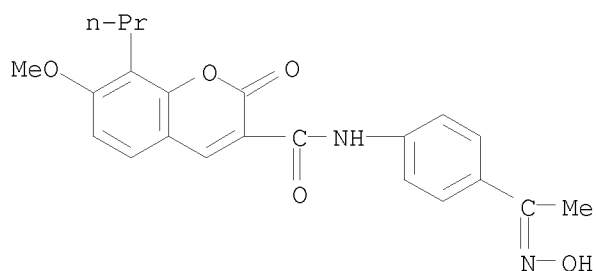
10/513699

methoxy-2-oxo-8-propyl- (CA INDEX NAME)



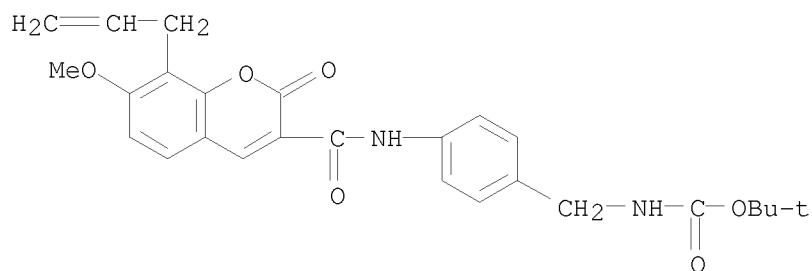
RN 952501-98-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[1-(hydroxyimino)ethyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952501-99-4 CAPLUS

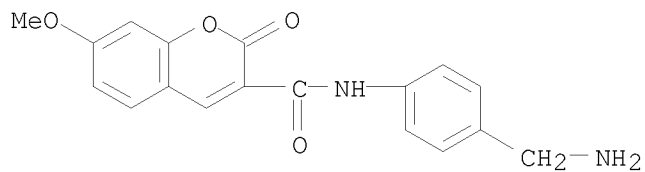
CN Carbamic acid, N-[[4-[[[7-methoxy-2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]phenyl]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 952502-00-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

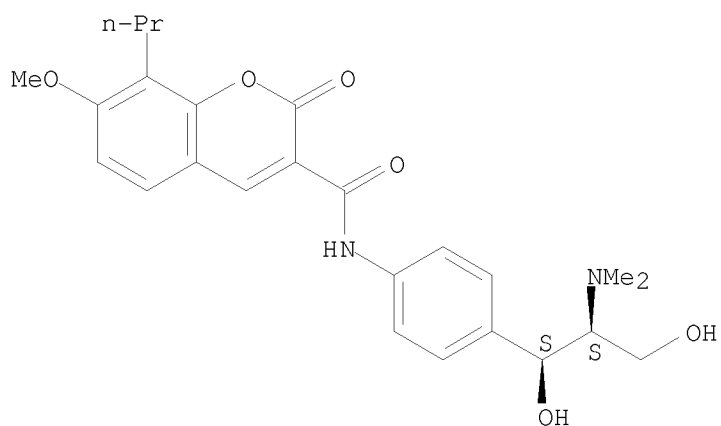
10/513699



RN 952502-02-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-(dimethylamino)-1,3-dihydroxypropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

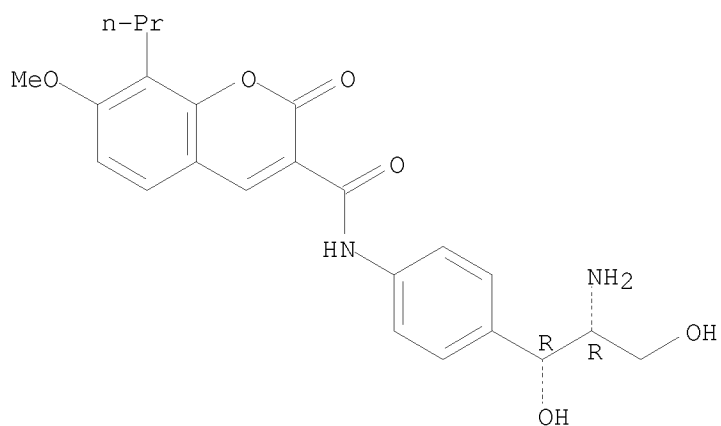
Absolute stereochemistry.



RN 952502-03-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R,2R)-2-amino-1,3-dihydroxypropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



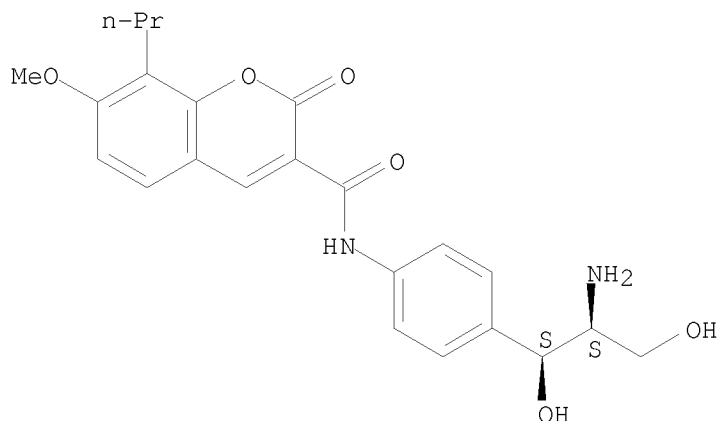
RN 952502-04-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-amino-1,3-

10/513699

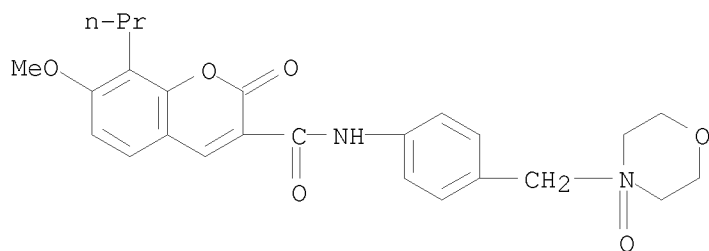
dihydroxypropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



RN 952502-05-5 CAPLUS

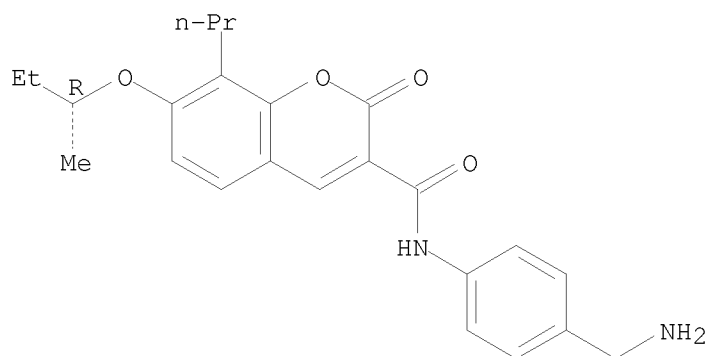
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(4-oxido-4-morpholinyl)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-06-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-[(1R)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

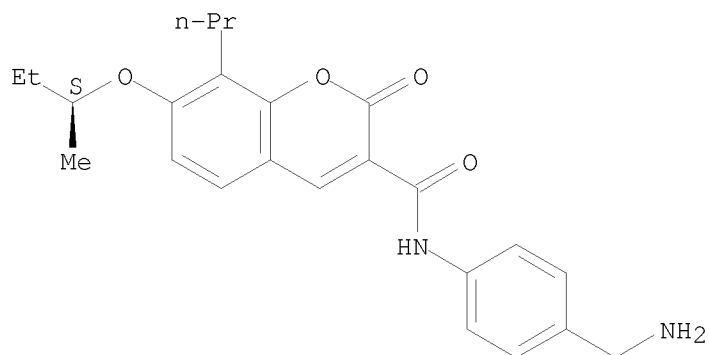
Erich Leese

10/513699

RN 952502-07-7 CAPLUS

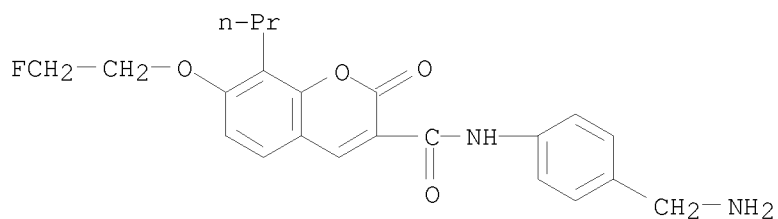
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-[(1S)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



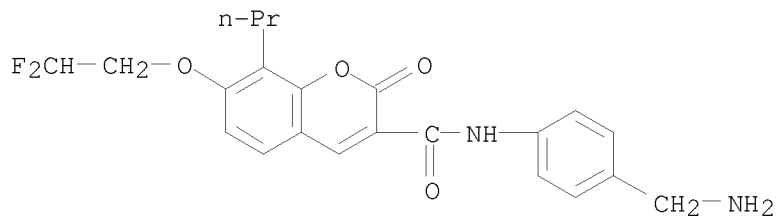
RN 952502-08-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-09-9 CAPLUS

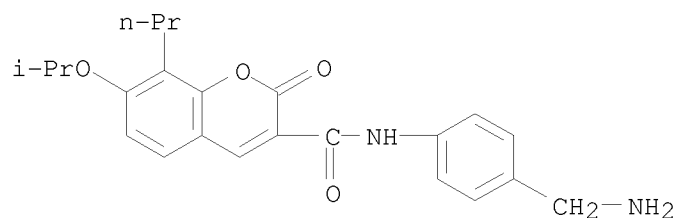
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-(2,2-difluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-10-2 CAPLUS

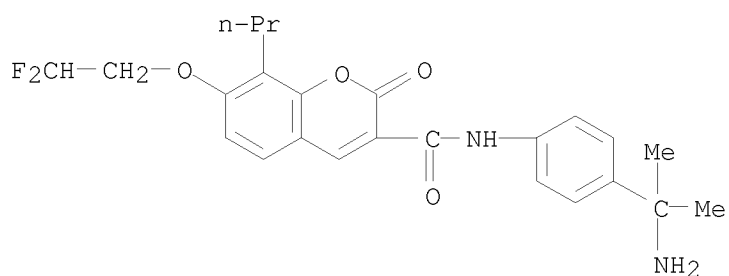
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-(1-methylethoxy)-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



RN 952502-11-3 CAPLUS

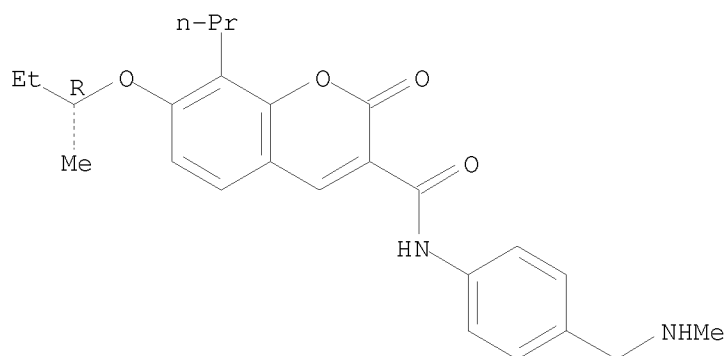
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-(2,2-difluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-12-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(methylamino)methyl]phenyl]-7-[(1R)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.

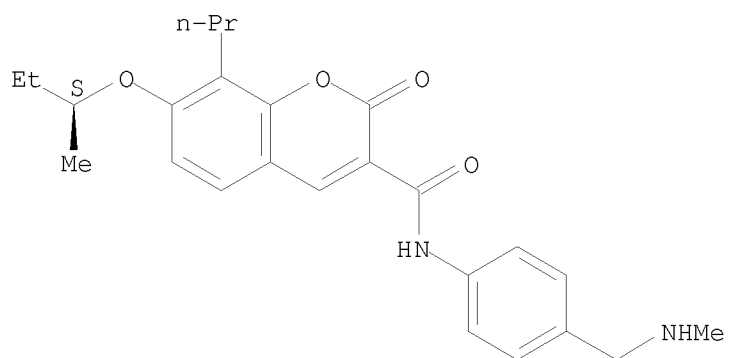


RN 952502-13-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(methylamino)methyl]phenyl]-7-[(1S)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

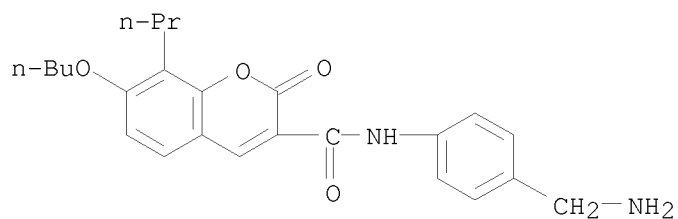
Absolute stereochemistry.

10/513699



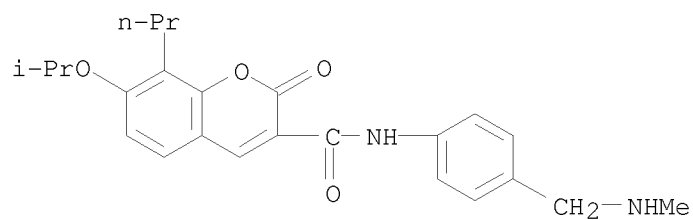
RN 952502-14-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-butoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-16-8 CAPLUS

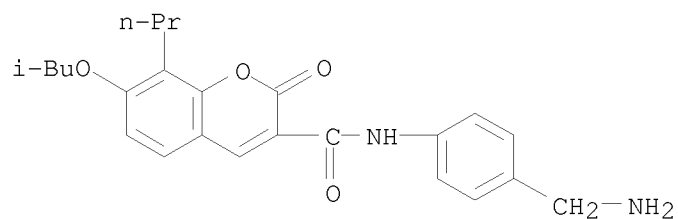
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(methylamino)methyl]phenyl]-7-(1-methylethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-17-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-(2-methylpropoxy)-2-oxo-8-propyl- (CA INDEX NAME)

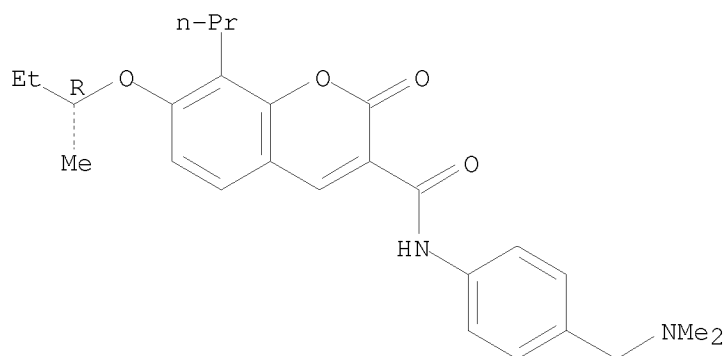
10/513699



RN 952502-18-0 CAPLUS

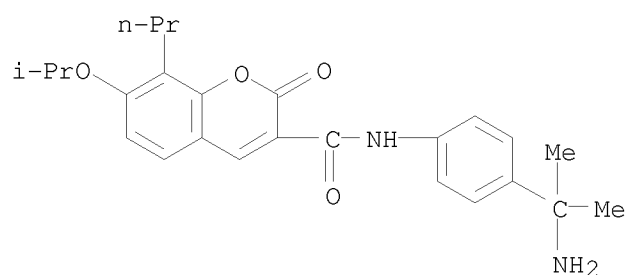
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-[(1R)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



RN 952502-19-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-(1-methylethoxy)-2-oxo-8-propyl- (CA INDEX NAME)

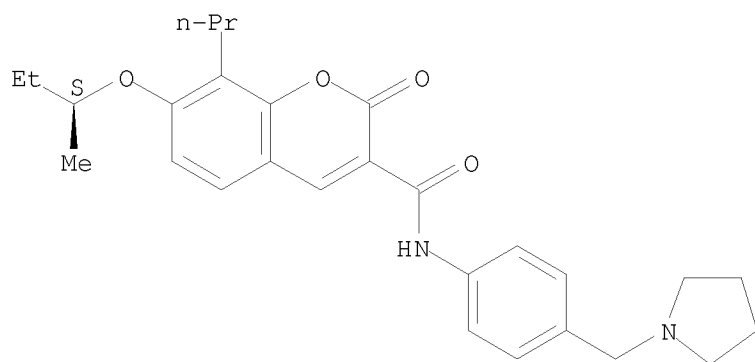


RN 952502-20-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-[(1S)-1-methylpropoxy]-2-oxo-8-propyl-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

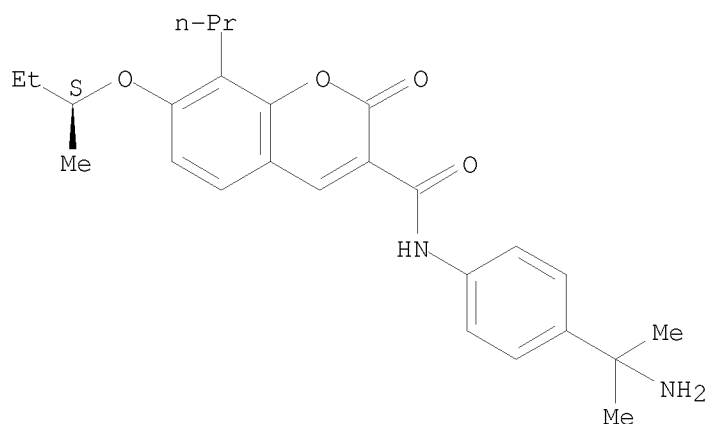
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RN 952502-21-5 CAPLUS

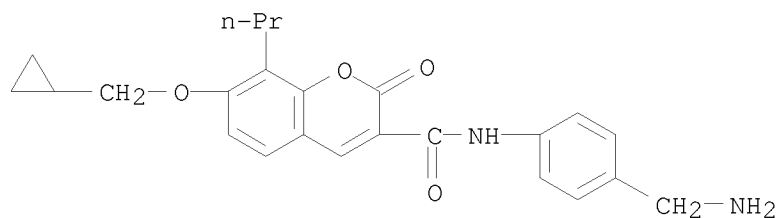
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-[(1S)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



RN 952502-22-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-(cyclopropylmethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



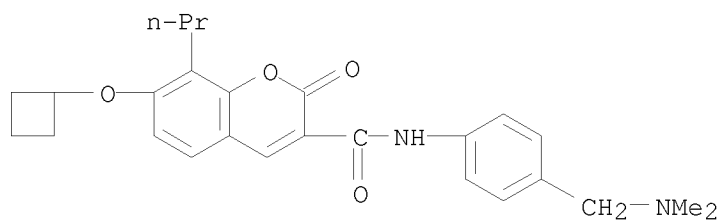
RN 952502-23-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(cyclobutylmethoxy)-N-[4-[(dimethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

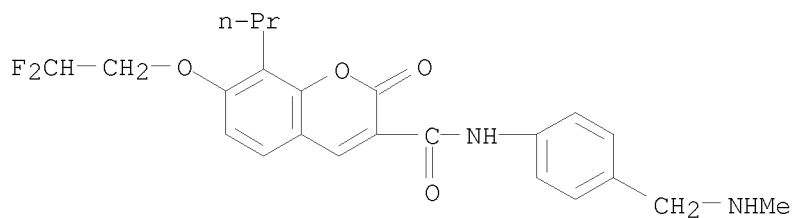
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Erich Leese

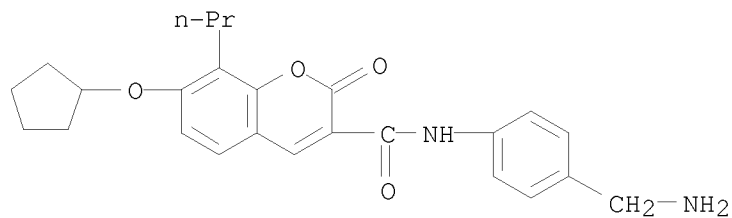
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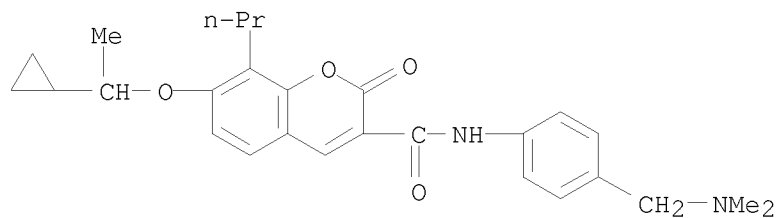
RN 952502-24-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-(2,2-difluoroethoxy)-N-[4-(dimethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-25-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-(cyclopentyloxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-26-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-(1-cyclopropylethoxy)-N-[4-(dimethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

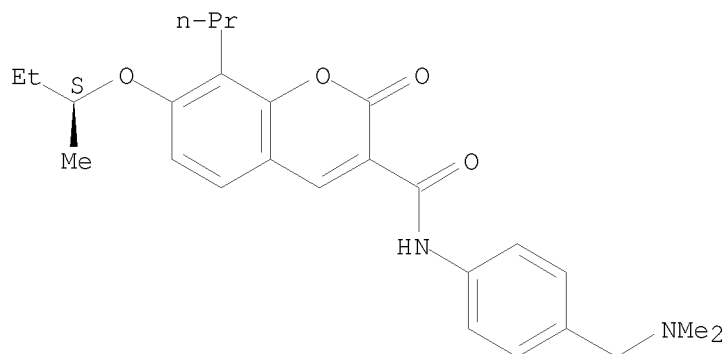


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RN 952502-27-1 CAPLUS

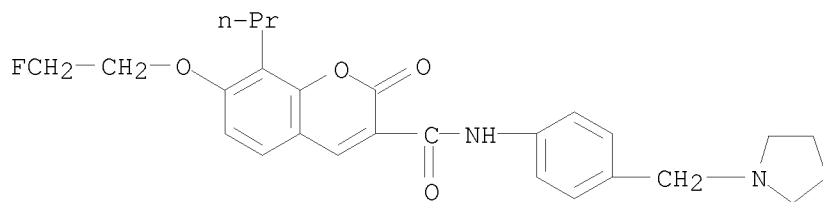
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-[(1S)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



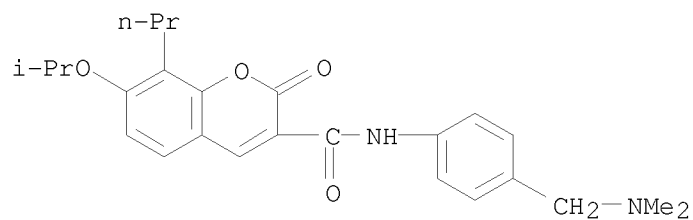
RN 952502-28-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(2-fluoroethoxy)-2-oxo-8-propyl-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)



RN 952502-29-3 CAPLUS

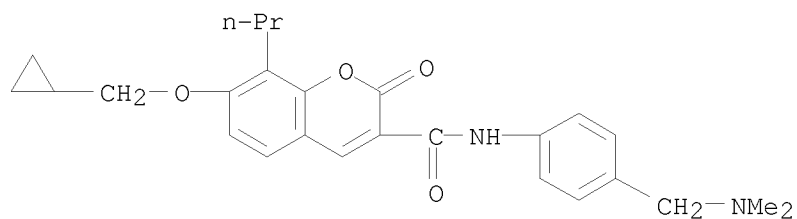
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-(1-methylethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-30-6 CAPLUS

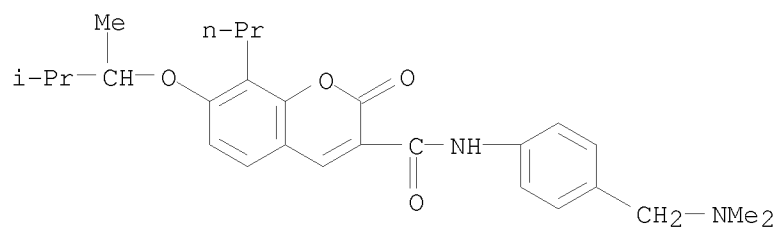
CN 2H-1-Benzopyran-3-carboxamide, 7-(cyclopropylmethoxy)-N-[4-[(dimethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



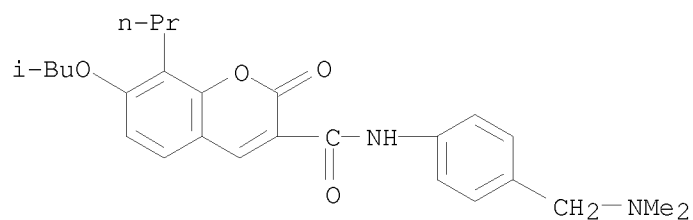
RN 952502-31-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-(1,2-dimethylpropoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-32-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-(2-methylpropoxy)-2-oxo-8-propyl- (CA INDEX NAME)

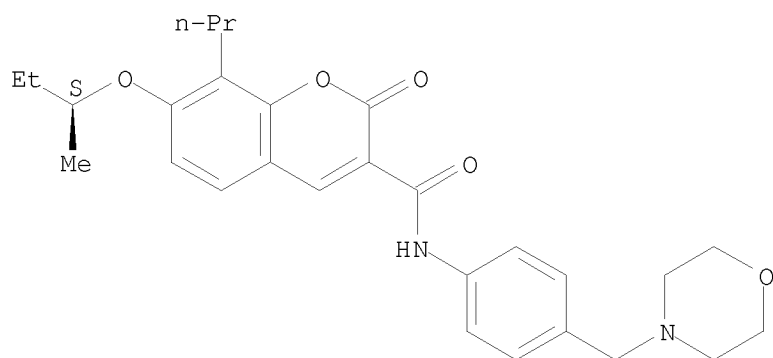


RN 952502-33-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-[(1S)-1-methylpropoxy]-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

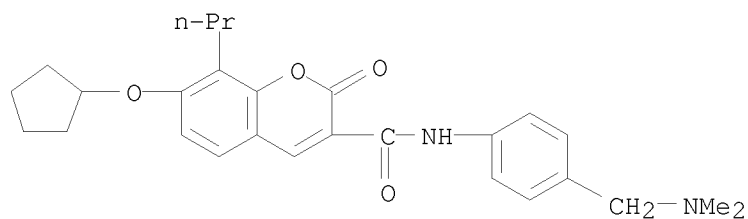
Absolute stereochemistry.

10/513699



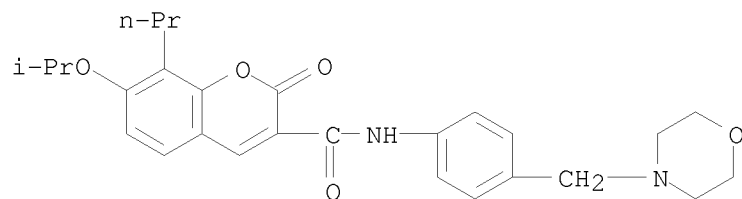
RN 952502-34-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(cyclopentyloxy)-N-[4-
[(dimethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-35-1 CAPLUS

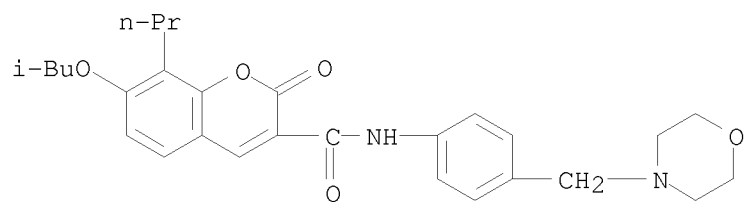
CN 2H-1-Benzopyran-3-carboxamide, 7-(1-methylethoxy)-N-[4-(4-
morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-36-2 CAPLUS

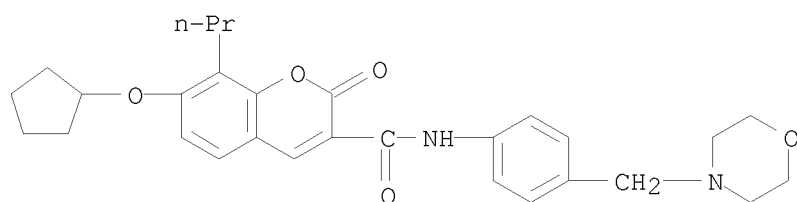
CN 2H-1-Benzopyran-3-carboxamide, 7-(2-methylpropoxy)-N-[4-(4-
morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



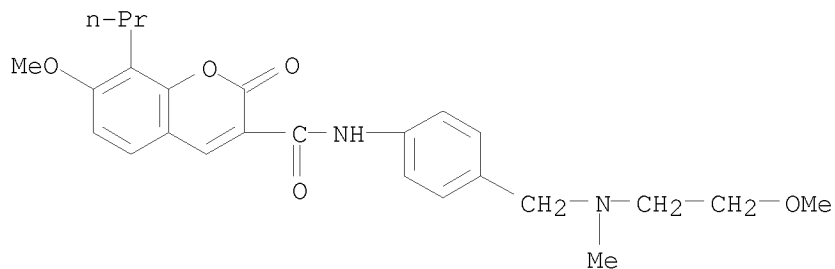
RN 952502-37-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(cyclopentyloxy)-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



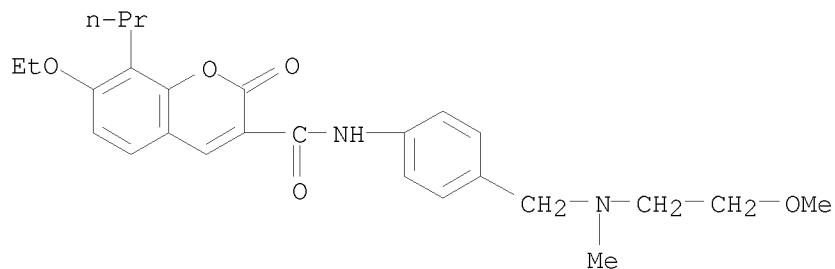
RN 952502-38-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(2-methoxyethyl)methylamino]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-41-9 CAPLUS

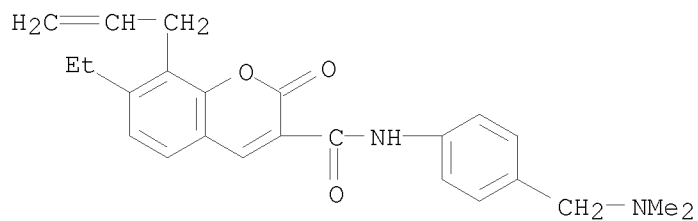
CN 2H-1-Benzopyran-3-carboxamide, 7-ethoxy-N-[4-[(2-methoxyethyl)methylamino]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



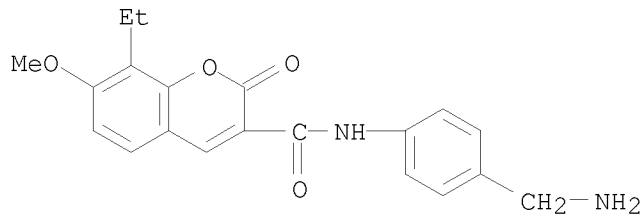
RN 952502-42-0 CAPLUS

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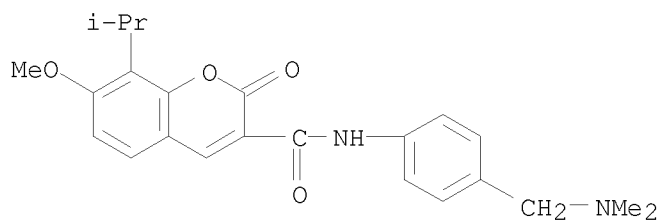
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-ethyl-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



RN 952502-43-1 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)



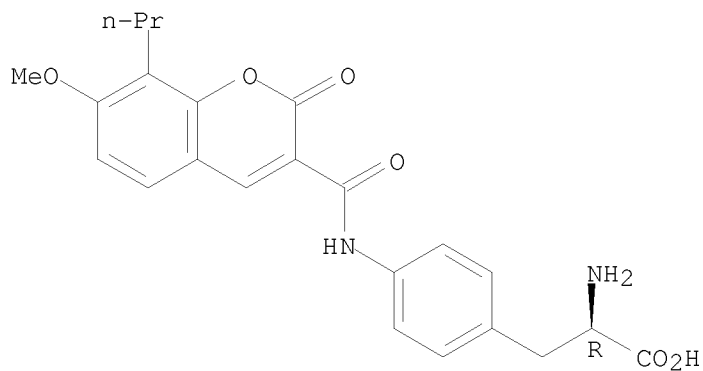
RN 952502-46-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-methoxy-8-(1-methylethyl)-2-oxo- (CA INDEX NAME)



RN 952502-47-5 CAPLUS
CN D-Phenylalanine, 4-[[(7-methoxy-2-oxo-8-propyl-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

Absolute stereochemistry.

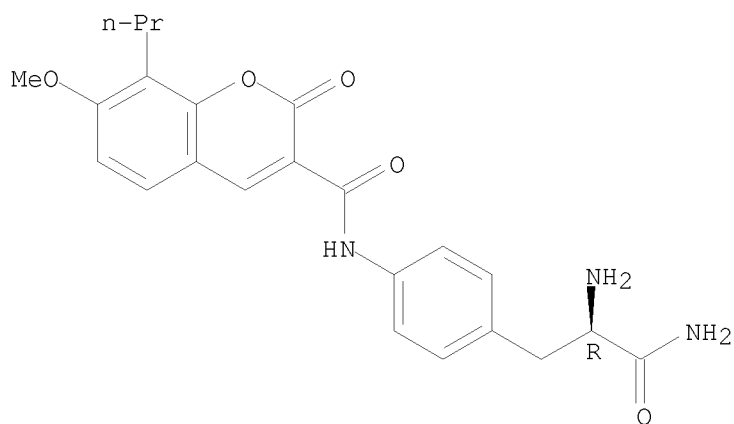
10/513699



RN 952502-48-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2R)-2,3-diamino-3-oxopropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.

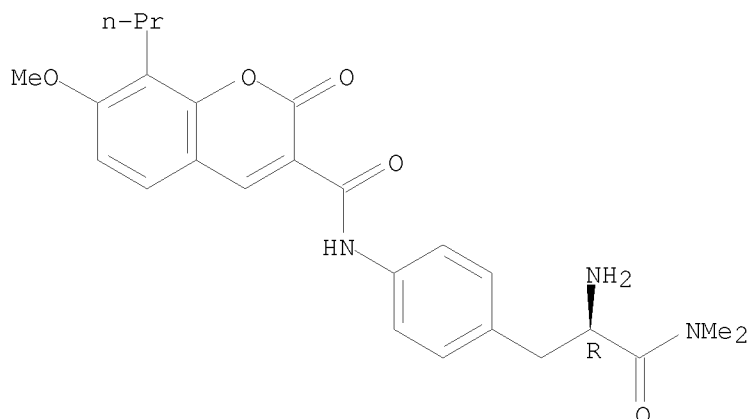


RN 952502-49-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2R)-2-amino-3-(dimethylamino)-3-oxopropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

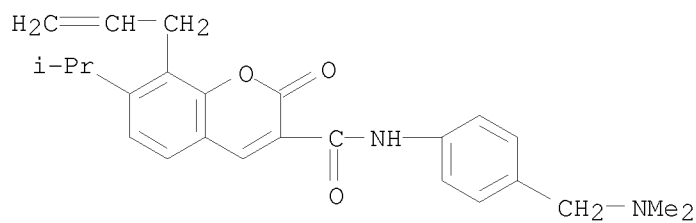
Absolute stereochemistry.

10/513699



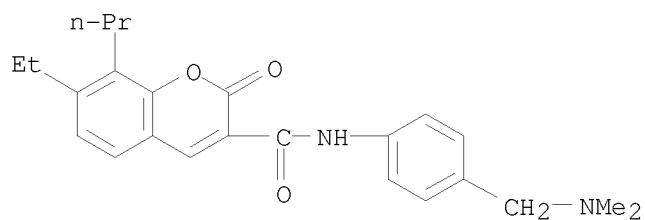
RN 952502-50-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-(1-methylethyl)-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



RN 952502-51-1 CAPLUS

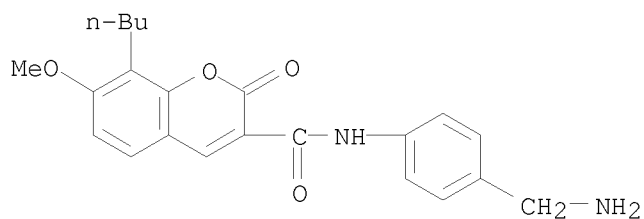
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-ethyl-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-52-2 CAPLUS

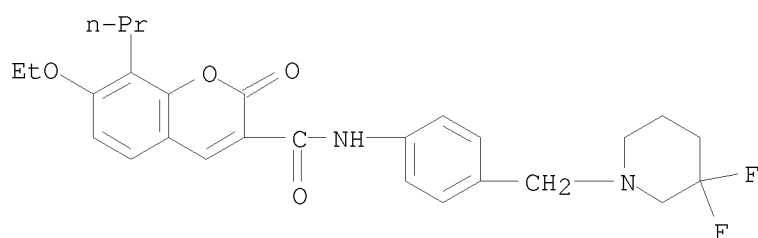
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-8-butyl-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699



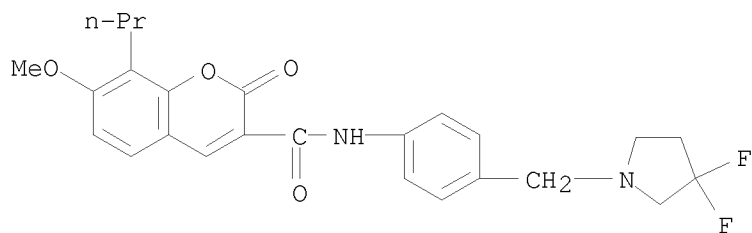
RN 952502-53-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3,3-difluoro-1-piperidinyl)methyl]phenyl]-7-ethoxy-2-oxo-8-propyl- (CA INDEX NAME)



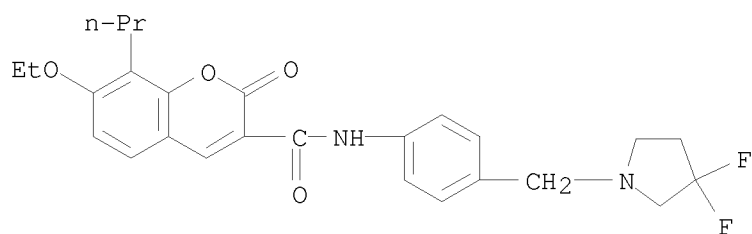
RN 952502-54-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3,3-difluoro-1-pyrrolidinyl)methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-55-5 CAPLUS

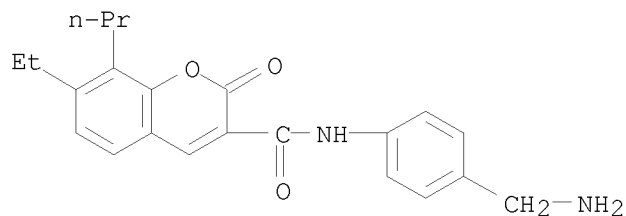
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3,3-difluoro-1-pyrrolidinyl)methyl]phenyl]-7-ethoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-56-6 CAPLUS

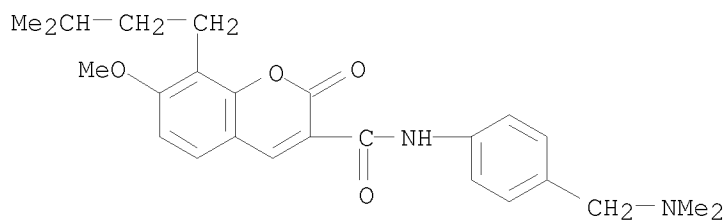
10/513699

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-ethyl-2-oxo-8-propyl- (CA INDEX NAME)



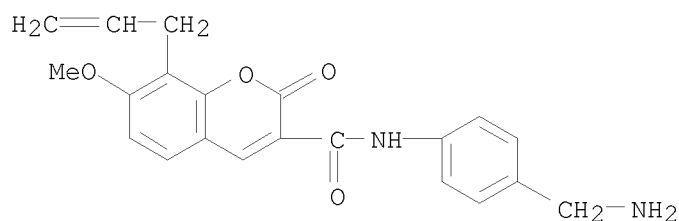
RN 952502-57-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-methoxy-8-(3-methylbutyl)-2-oxo- (CA INDEX NAME)



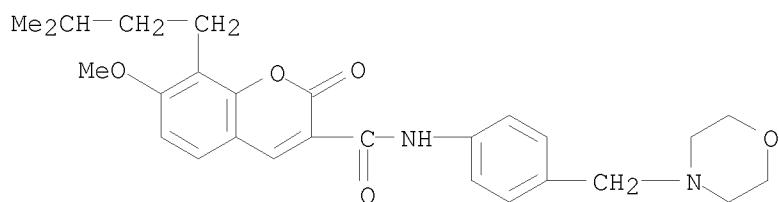
RN 952502-58-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-methoxy-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



RN 952502-59-9 CAPLUS

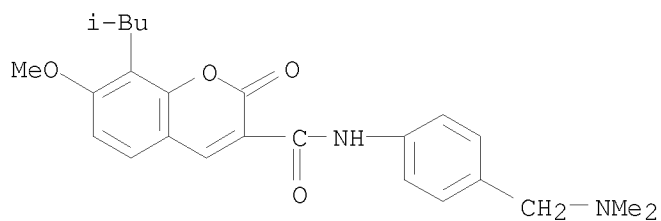
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-(3-methylbutyl)-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo- (CA INDEX NAME)



10/513699

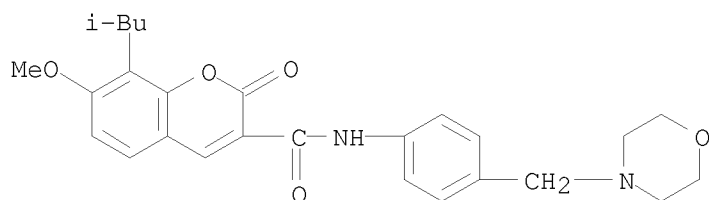
RN 952502-60-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-methoxy-8-(2-methylpropyl)-2-oxo- (CA INDEX NAME)



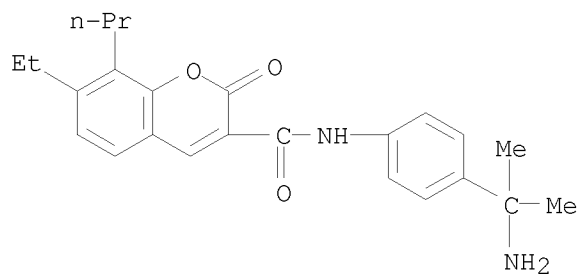
RN 952502-61-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-(2-methylpropyl)-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 952502-62-4 CAPLUS

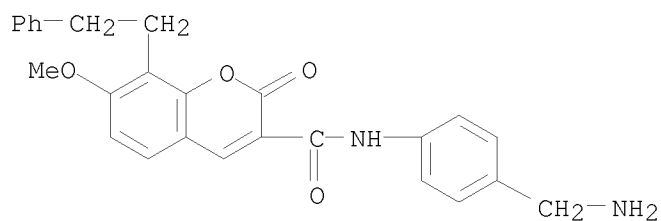
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-ethyl-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-63-5 CAPLUS

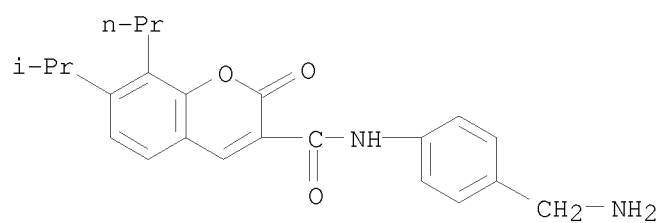
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-methoxy-2-oxo-8-(2-phenylethyl)- (CA INDEX NAME)

10/513699



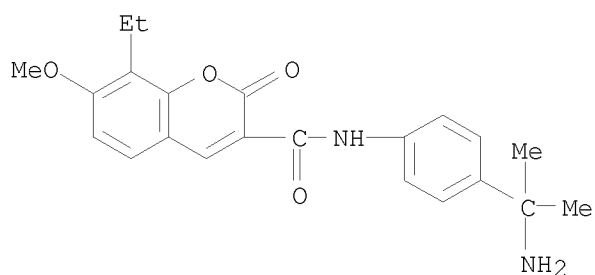
RN 952502-64-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-(1-methylethyl)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-65-7 CAPLUS

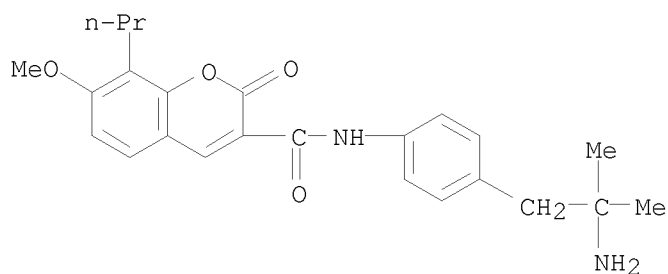
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952502-66-8 CAPLUS

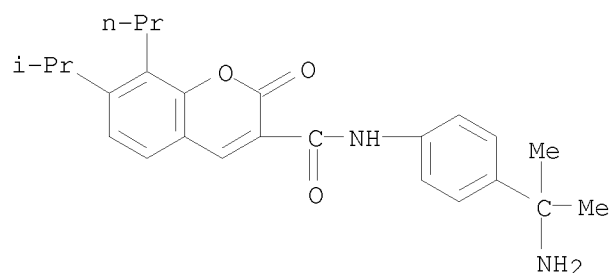
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(2-amino-2-methylpropyl)phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



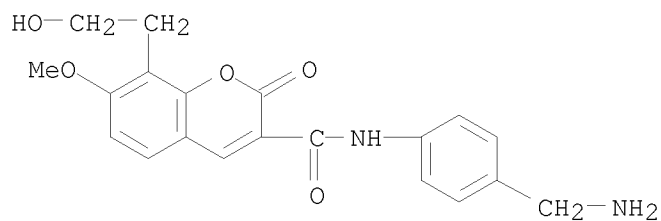
RN 952502-67-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-(1-methylethyl)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-69-1 CAPLUS

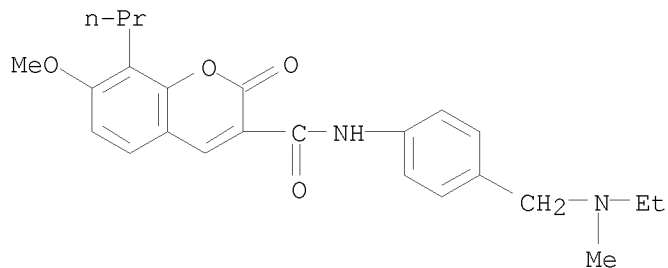
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-8-(2-hydroxyethyl)-7-methoxy-2-oxo- (CA INDEX NAME)



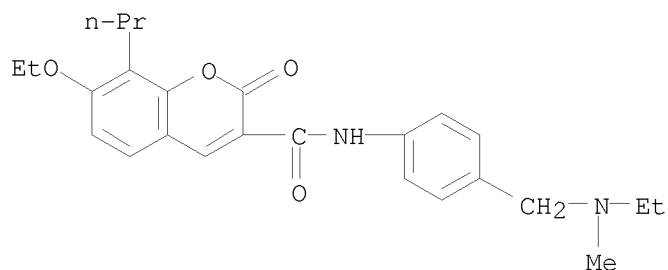
RN 952502-70-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(ethylmethylamino)methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

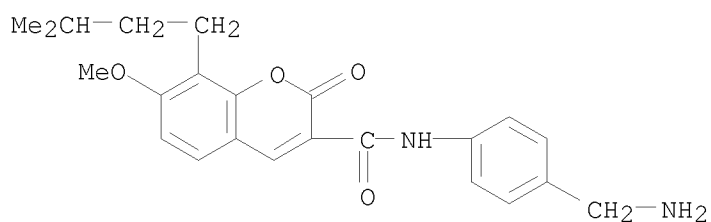
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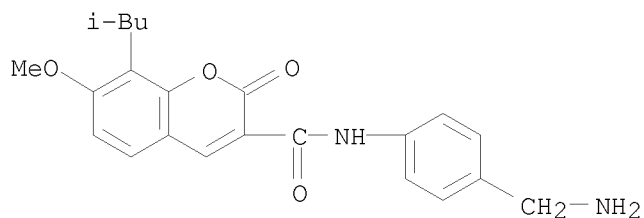
RN 952502-71-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-ethoxy-N-[4-
[(ethylmethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-72-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-methoxy-8-(3-
methylbutyl)-2-oxo- (CA INDEX NAME)



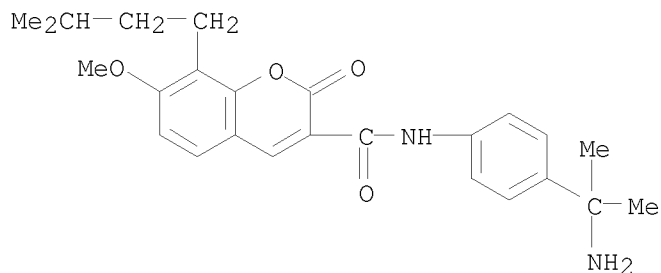
RN 952502-73-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-methoxy-8-(2-
methylpropyl)-2-oxo- (CA INDEX NAME)



10/513699

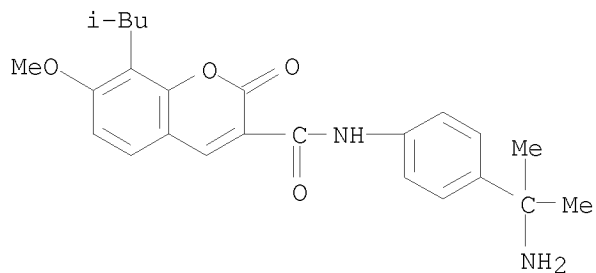
RN 952502-74-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-(3-methylbutyl)-2-oxo- (CA INDEX NAME)



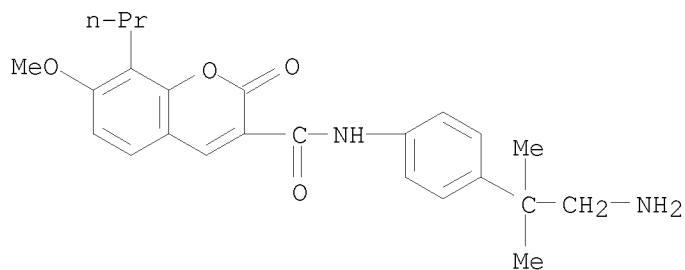
RN 952502-75-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-(2-methylpropyl)-2-oxo- (CA INDEX NAME)



RN 952502-76-0 CAPLUS

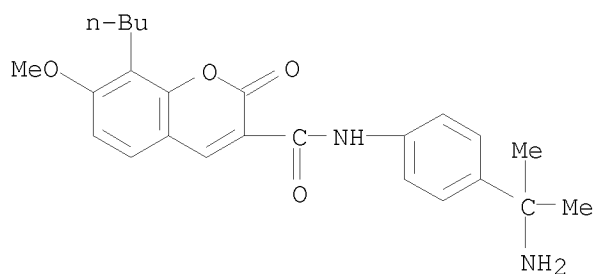
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(2-amino-1,1-dimethylethyl)phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-79-3 CAPLUS

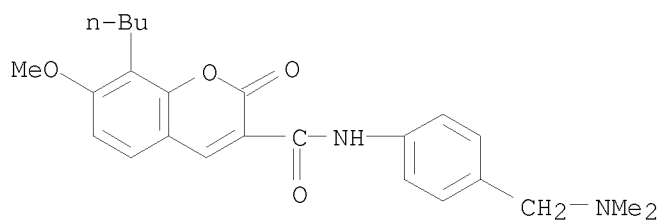
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-8-butyl-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699



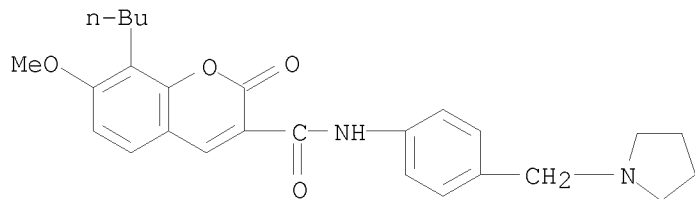
RN 952502-80-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-butyl-N-[4-[(dimethylamino)methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952502-81-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-butyl-7-methoxy-2-oxo-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)

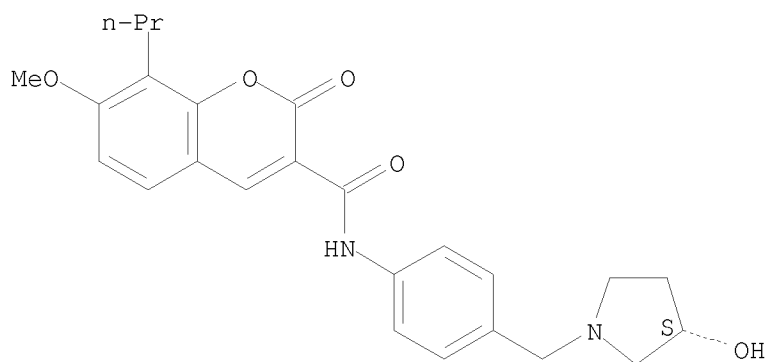


RN 952502-82-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3S)-3-hydroxy-1-pyrrolidinyl]methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.

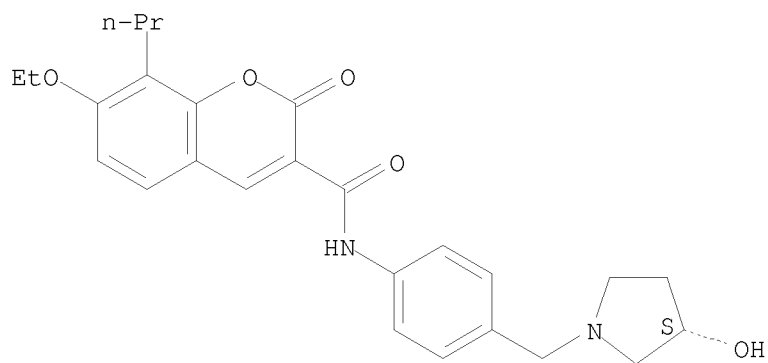
10/513699



RN 952502-83-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-ethoxy-N-[4-[(3S)-3-hydroxy-1-pyrrolidinyl]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

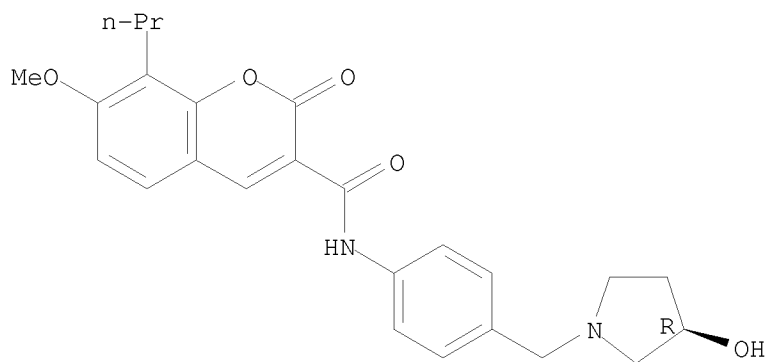
Absolute stereochemistry.



RN 952502-84-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3R)-3-hydroxy-1-pyrrolidinyl]methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

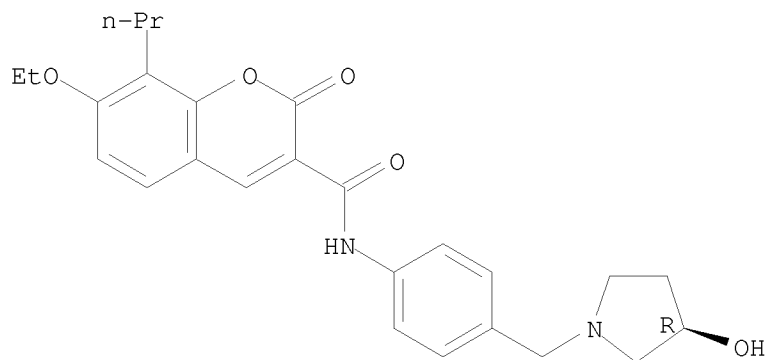
Erich Leese

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RN 952502-85-1 CAPLUS

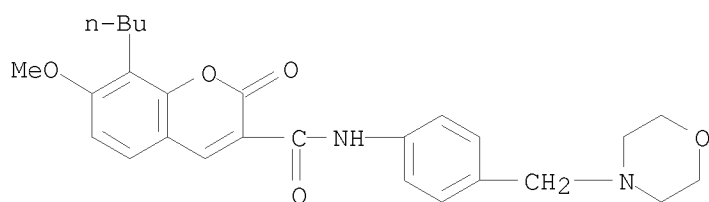
CN 2H-1-Benzopyran-3-carboxamide, 7-ethoxy-N-[4-[(3R)-3-hydroxy-1-pyrrolidinyl]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.



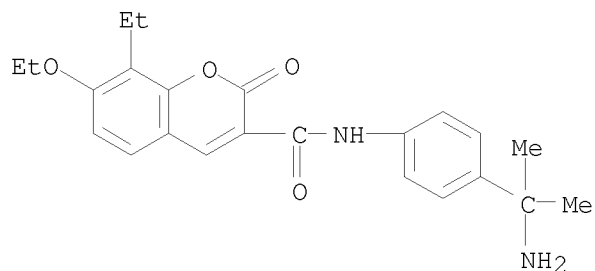
RN 952502-87-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-butyl-7-methoxy-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 952502-89-5 CAPLUS

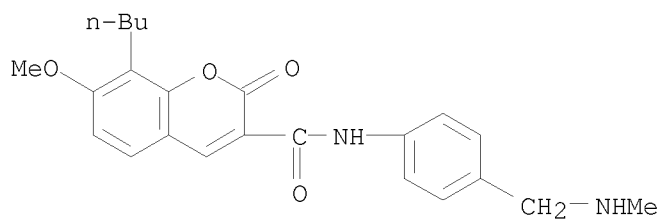
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-ethoxy-8-ethyl-2-oxo- (CA INDEX NAME)



RN 952502-90-8 CAPLUS

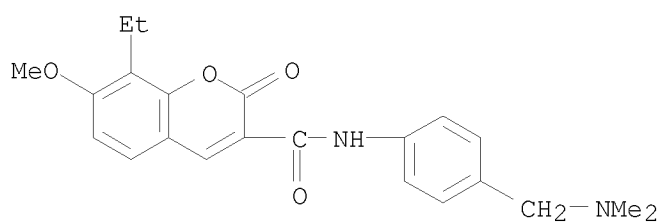
CN 2H-1-Benzopyran-3-carboxamide, 8-butyl-7-methoxy-N-[4-[(methylamino)methyl]phenyl]-2-oxo- (CA INDEX NAME)

10/513699



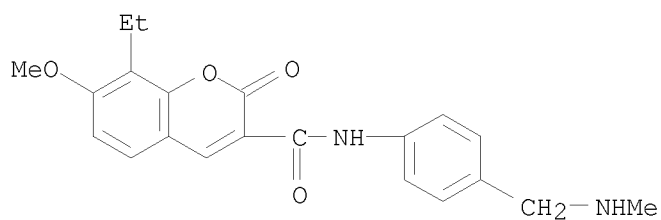
RN 952502-91-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)



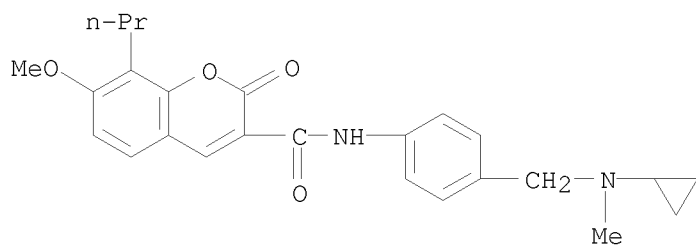
RN 952502-92-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-7-methoxy-N-[4-[(methylamino)methyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 952502-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclopropylmethylamino)methyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)



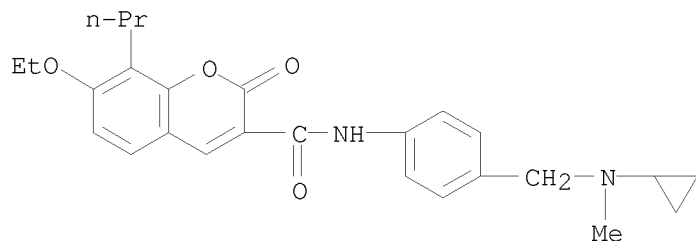
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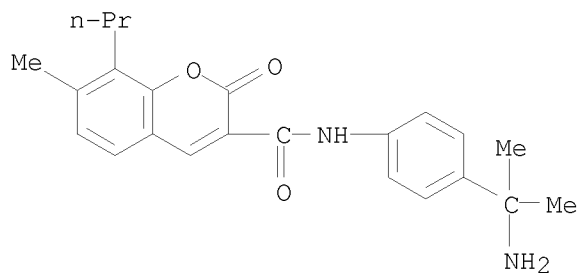
RN 952502-95-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-
[(cyclopropylmethylamino)methyl]phenyl]-7-ethoxy-2-oxo-8-propyl- (CA
INDEX NAME)



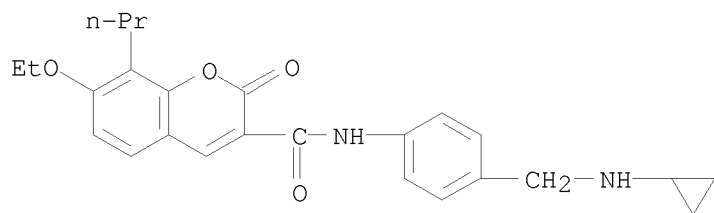
RN 952502-96-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-
methyl-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-97-5 CAPLUS

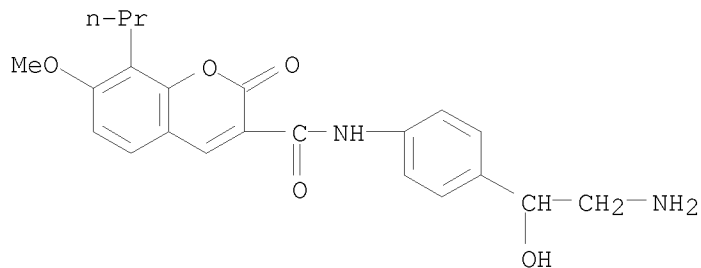
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclopropylamino)methyl]phenyl]-7-
ethoxy-2-oxo-8-propyl- (CA INDEX NAME)



RN 952502-99-7 CAPLUS

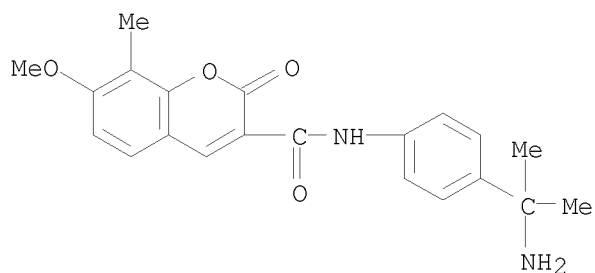
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(2-amino-1-hydroxyethyl)phenyl]-7-
methoxy-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



RN 952503-01-4 CAPLUS

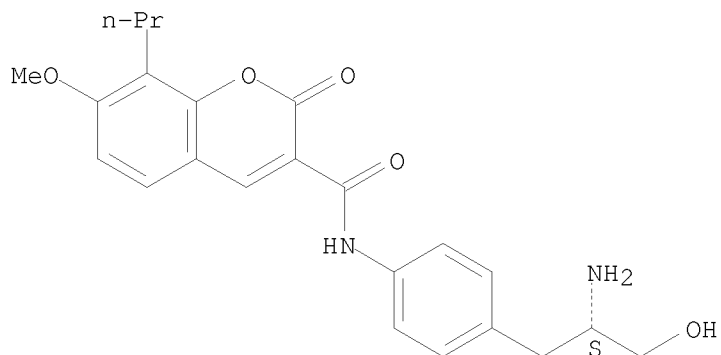
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-methyl-2-oxo- (CA INDEX NAME)



RN 952503-03-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2S)-2-amino-3-hydroxypropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.

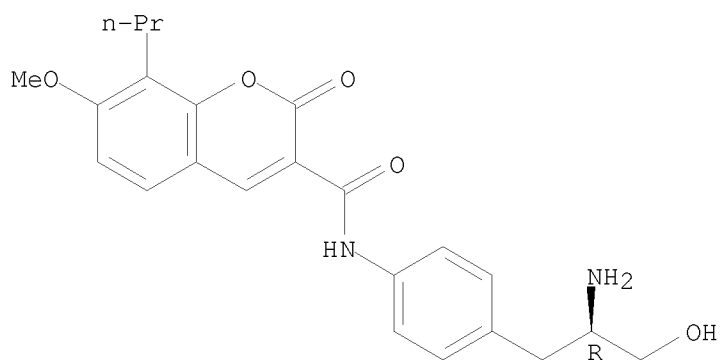


RN 952503-05-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2R)-2-amino-3-hydroxypropyl]phenyl]-7-methoxy-2-oxo-8-propyl- (CA INDEX NAME)

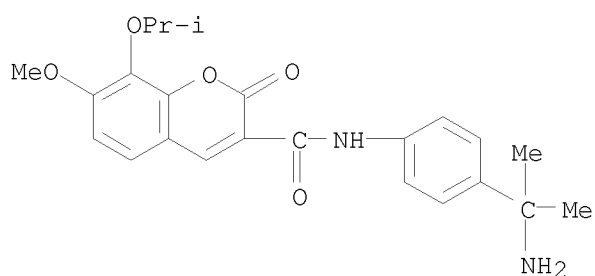
Absolute stereochemistry.

10/513699



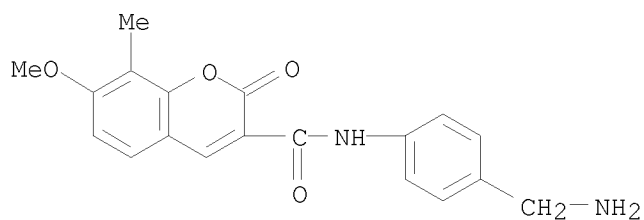
RN 952503-07-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)



RN 952503-08-1 CAPLUS

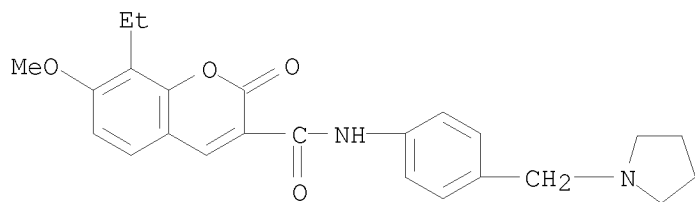
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-7-methoxy-8-methyl-2-oxo- (CA INDEX NAME)



RN 952503-10-5 CAPLUS

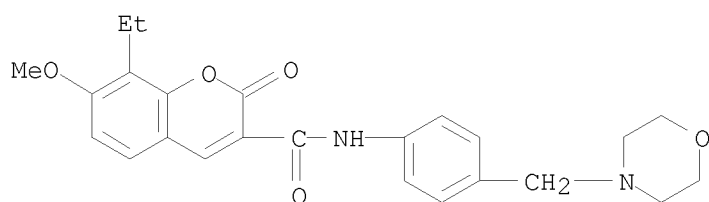
CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-7-methoxy-2-oxo-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)

10/513699



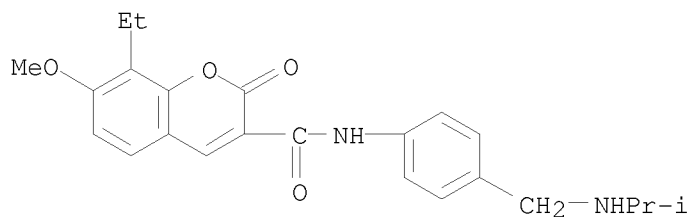
RN 952503-11-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-7-methoxy-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo- (CA INDEX NAME)



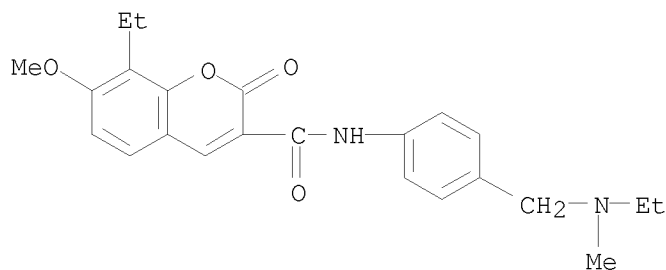
RN 952503-12-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-7-methoxy-N-[4-[(1-methylethyl)amino]methyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 952503-13-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(ethylmethylamino)methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

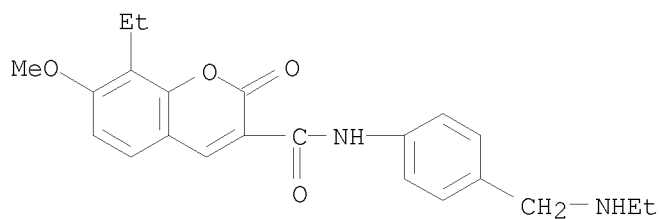


RN 952503-14-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(ethylamino)methyl]phenyl]-7-

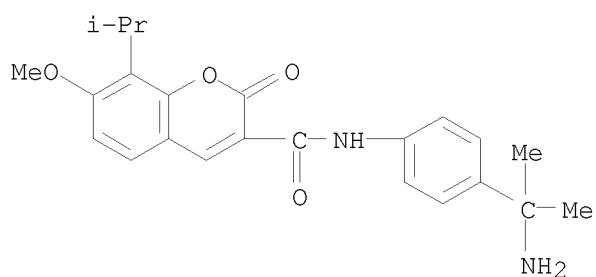
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methoxy-2-oxo- (CA INDEX NAME)



RN 952503-15-0 CAPLUS

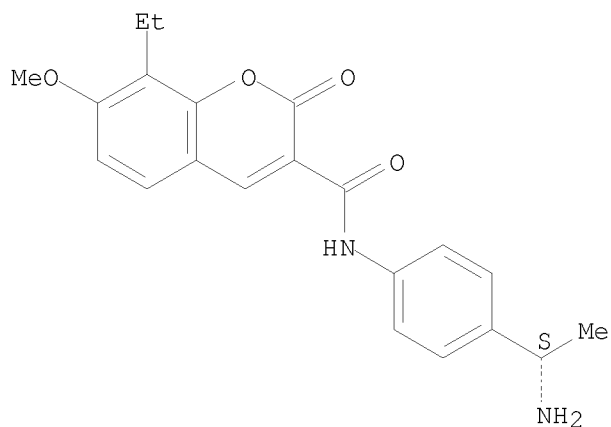
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-(1-methylethyl)-2-oxo- (CA INDEX NAME)



RN 952503-17-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S)-1-aminoethyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952503-18-3 CAPLUS

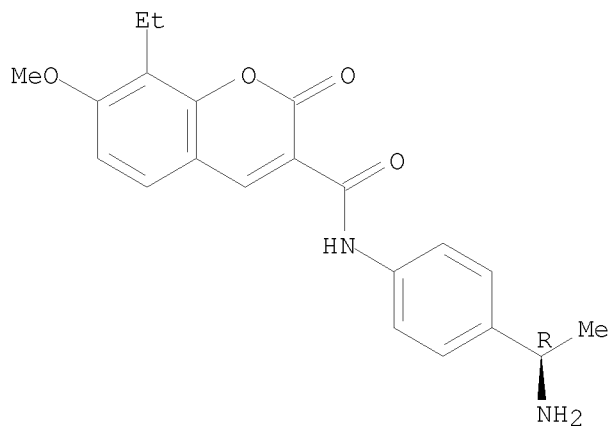
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R)-1-aminoethyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

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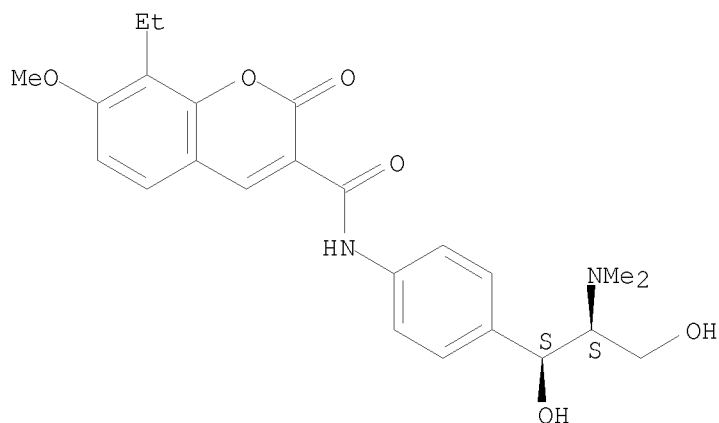
Absolute stereochemistry.



RN 952503-19-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-(dimethylamino)-1,3-dihydroxypropyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

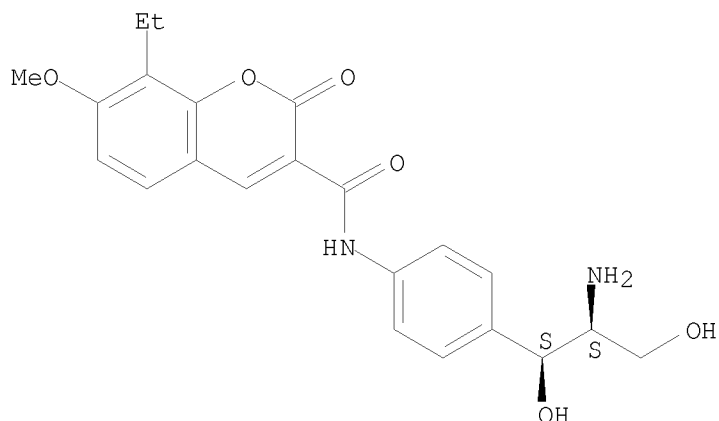


RN 952503-20-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-amino-1,3-dihydroxypropyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

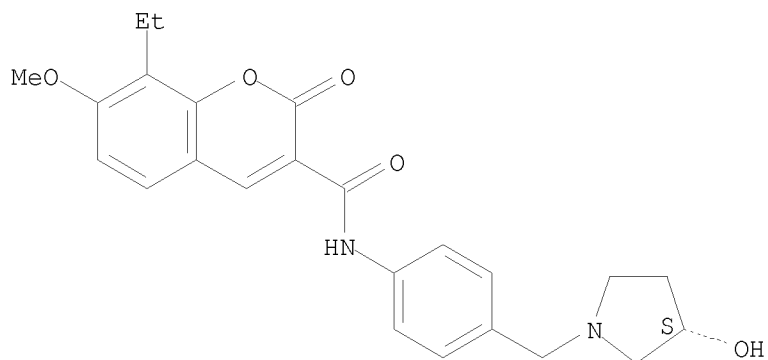
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RN 952503-22-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(3S)-3-hydroxy-1-pyrrolidinyl]methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

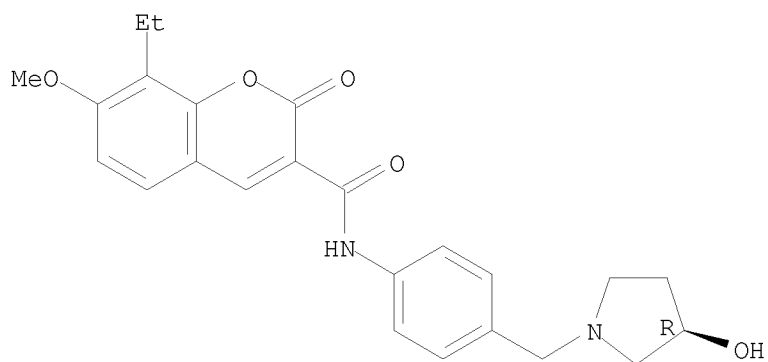


RN 952503-23-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(3R)-3-hydroxy-1-pyrrolidinyl]methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

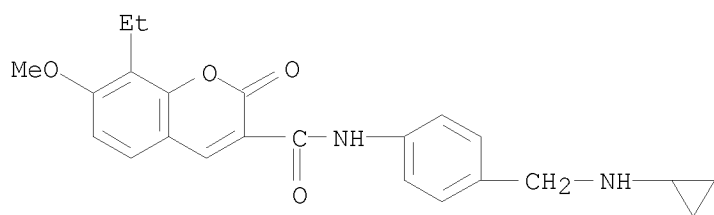
Absolute stereochemistry.

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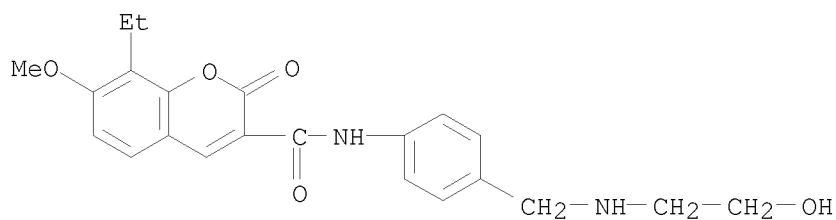
RN 952503-24-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclopropylamino)methyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952503-25-2 CAPLUS

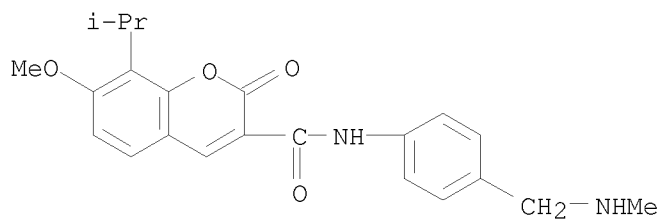
CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(2-hydroxyethyl)amino]methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952503-26-3 CAPLUS

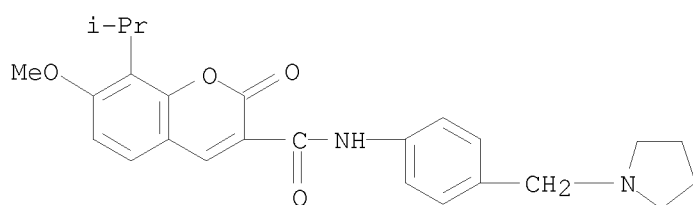
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(methylamino)methyl]phenyl]-8-(1-methylethyl)-2-oxo- (CA INDEX NAME)

10/513699



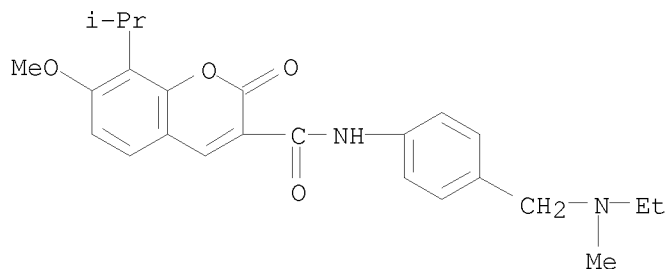
RN 952503-27-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-(1-methylethyl)-2-oxo-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)



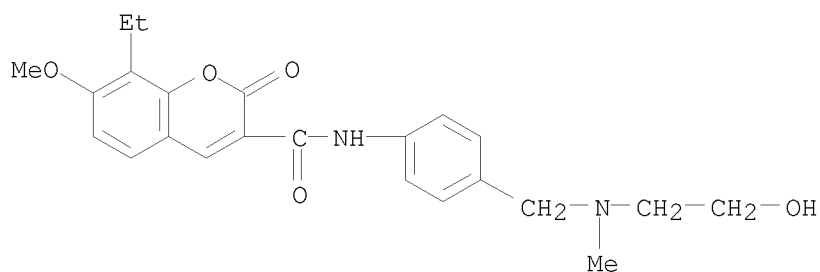
RN 952503-28-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(ethylmethylamino)methyl]phenyl]-7-methoxy-8-(1-methylethyl)-2-oxo- (CA INDEX NAME)



RN 952503-29-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(2-hydroxyethyl)methylamino]methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

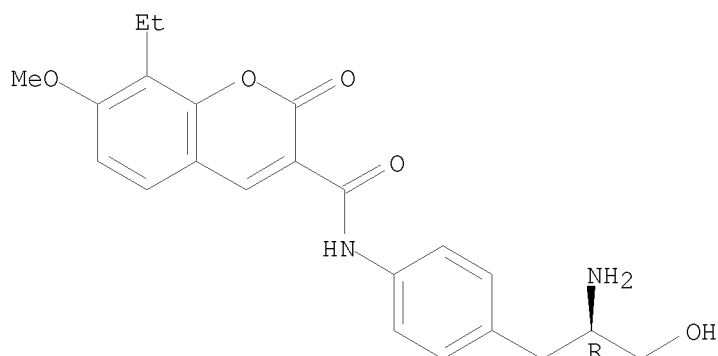


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RN 952503-30-9 CAPLUS

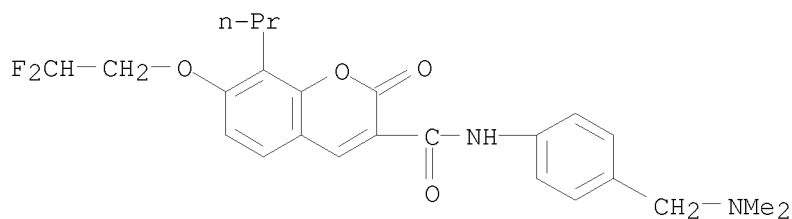
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2R)-2-amino-3-hydroxypropyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



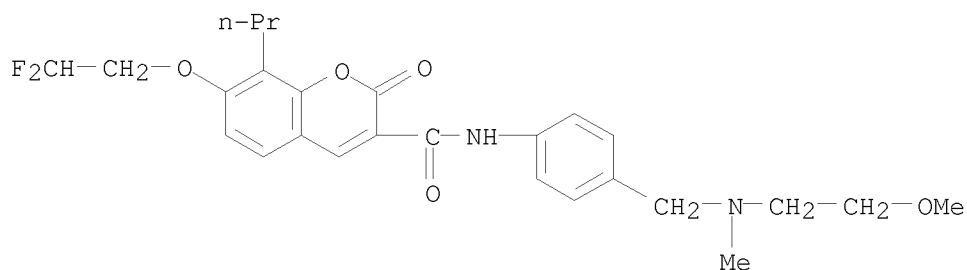
RN 952503-33-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(2,2-difluoroethoxy)-N-[4-[(dimethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-34-3 CAPLUS

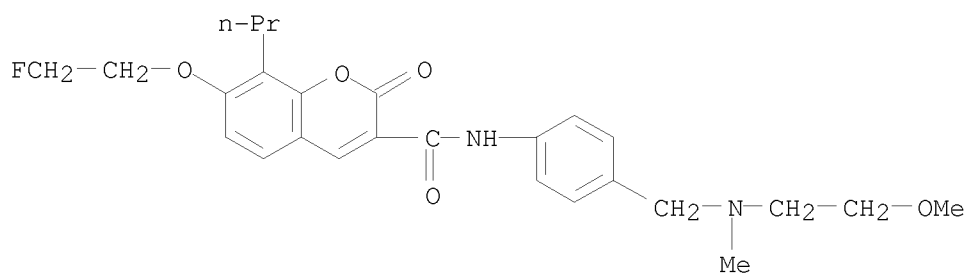
CN 2H-1-Benzopyran-3-carboxamide, 7-(2,2-difluoroethoxy)-N-[4-[(2-methoxyethyl)methylamino]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-35-4 CAPLUS

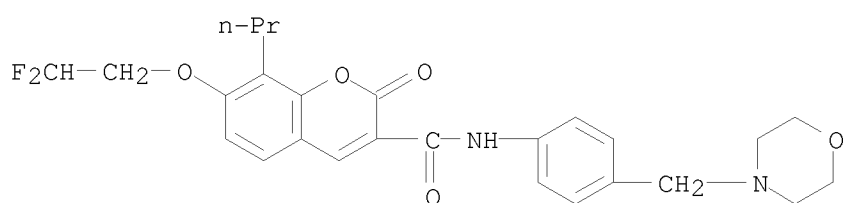
CN 2H-1-Benzopyran-3-carboxamide, 7-(2-fluoroethoxy)-N-[4-[(2-methoxyethyl)methylamino]methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

10/513699



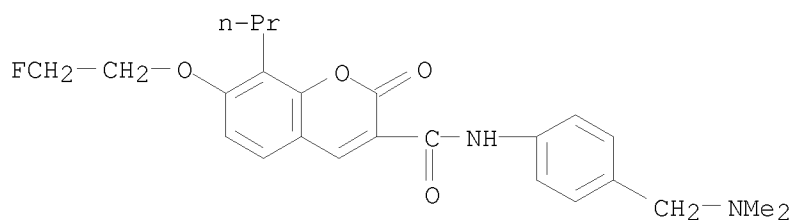
RN 952503-36-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(2,2-difluoroethoxy)-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



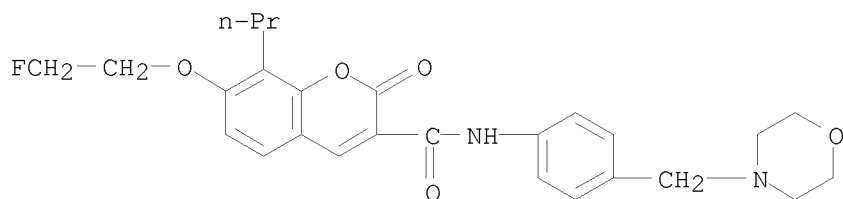
RN 952503-37-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-38-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(2-fluoroethoxy)-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



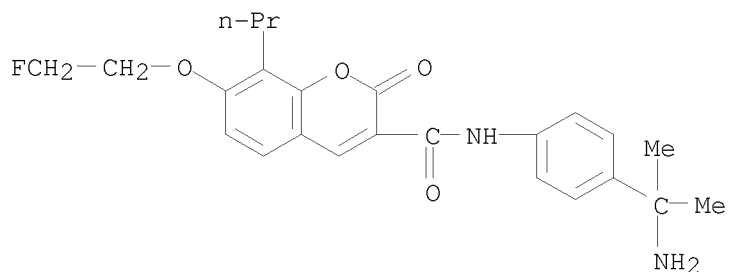
RN 952503-42-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)

<12/04/2007>

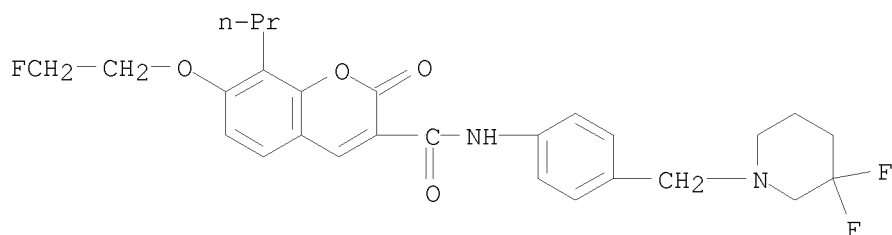
Erich Leese

10/513699



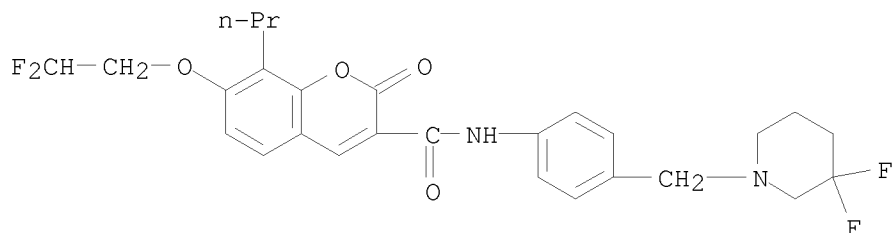
RN 952503-43-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3,3-difluoro-1-piperidinyl)methyl]phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-44-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(2,2-difluoroethoxy)-N-[4-[(3,3-difluoro-1-piperidinyl)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)

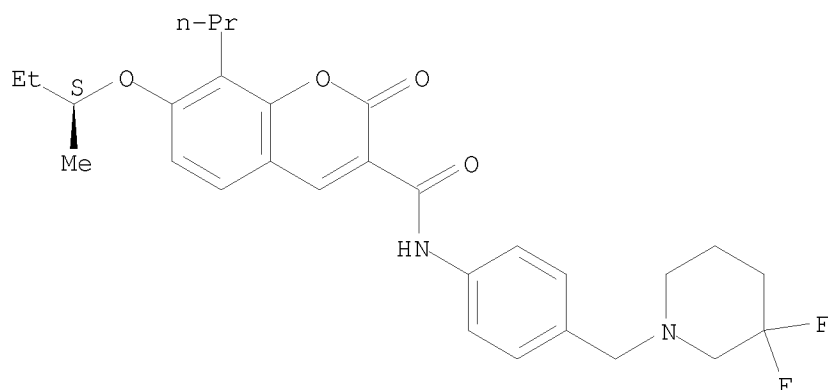


RN 952503-45-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3,3-difluoro-1-piperidinyl)methyl]phenyl]-7-[(1S)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

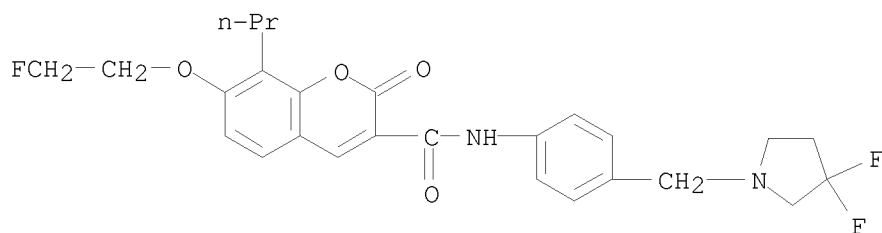
Absolute stereochemistry.

10/513699



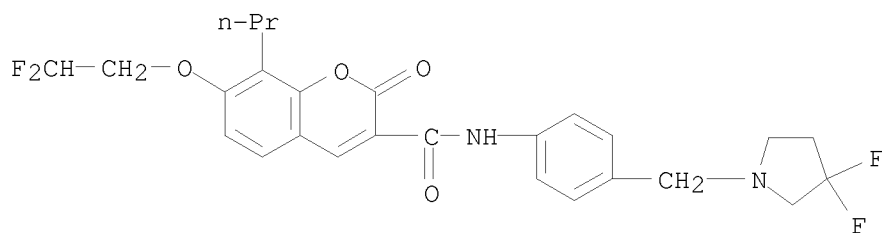
RN 952503-46-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3,3-difluoro-1-pyrrolidinyl)methyl]phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-47-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-(2,2-difluoroethoxy)-N-[4-[(3,3-difluoro-1-pyrrolidinyl)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-48-9 CAPLUS

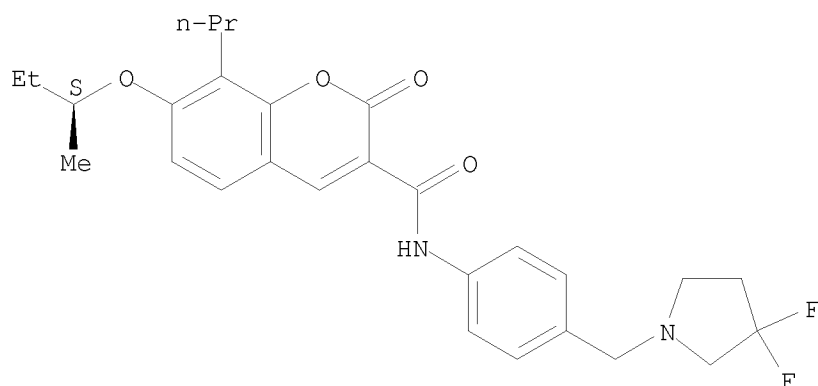
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(3,3-difluoro-1-pyrrolidinyl)methyl]phenyl]-7-[(1S)-1-methylpropoxy]-2-oxo-8-propyl- (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

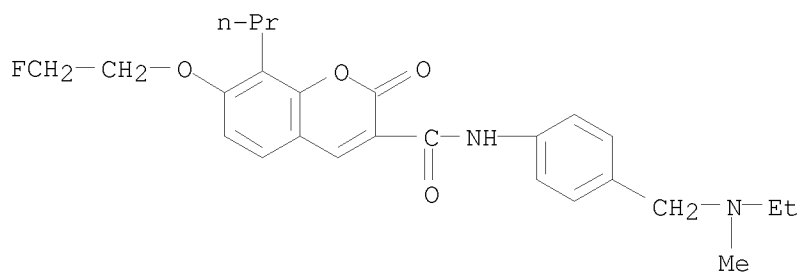
Erich Leese

10/513699



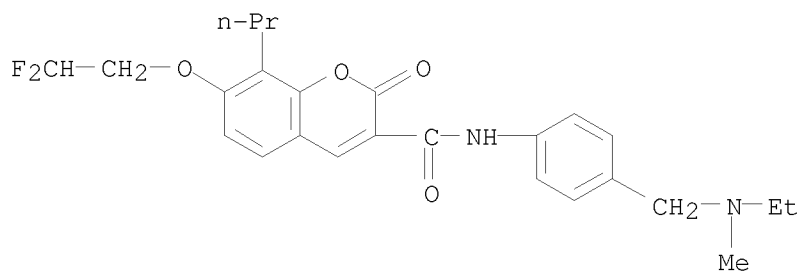
RN 952503-49-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(ethylmethylamino)methyl]phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-50-3 CAPLUS

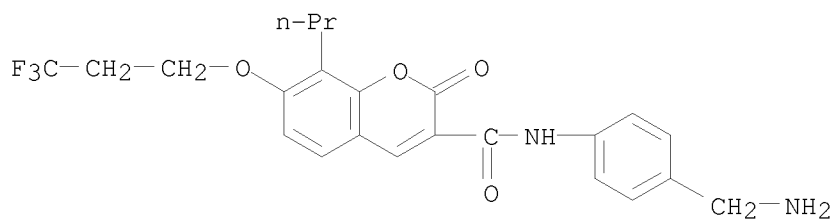
CN 2H-1-Benzopyran-3-carboxamide, 7-(2,2-difluoroethoxy)-N-[4-[(ethylmethylamino)methyl]phenyl]-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-51-4 CAPLUS

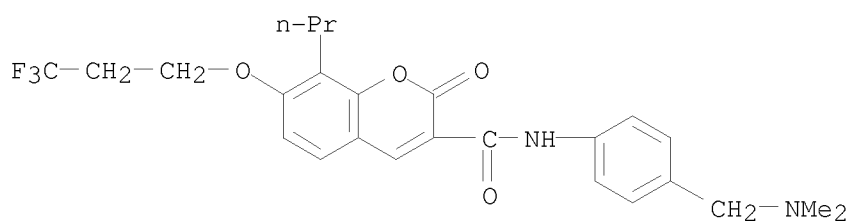
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminomethyl)phenyl]-2-oxo-8-propyl-7-(3,3,3-trifluoropropoxy)- (CA INDEX NAME)

10/513699



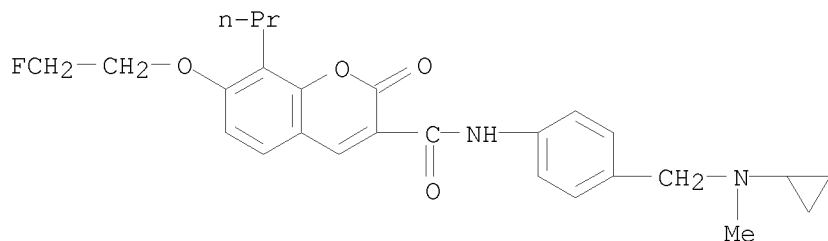
RN 952503-53-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-2-oxo-8-propyl-7-(3,3,3-trifluoropropoxy)- (CA INDEX NAME)



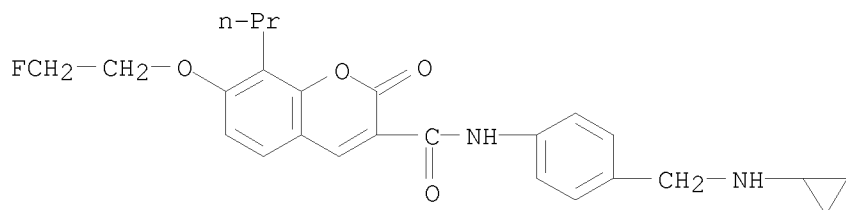
RN 952503-54-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclopropylmethylamino)methyl]phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



RN 952503-55-8 CAPLUS

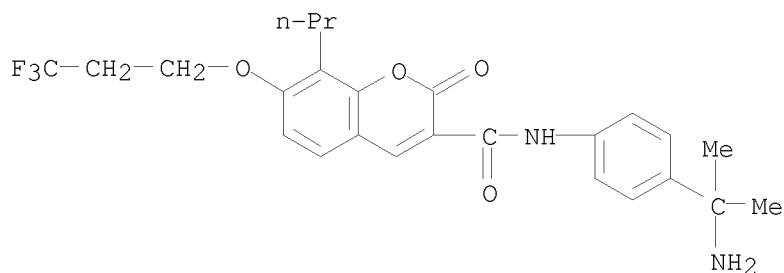
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclopropylamino)methyl]phenyl]-7-(2-fluoroethoxy)-2-oxo-8-propyl- (CA INDEX NAME)



10/513699

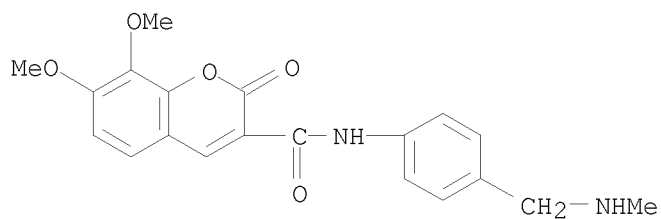
RN 952503-56-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-2-oxo-8-propyl-7-(3,3,3-trifluoropropoxy)- (CA INDEX NAME)



RN 952503-58-1 CAPLUS

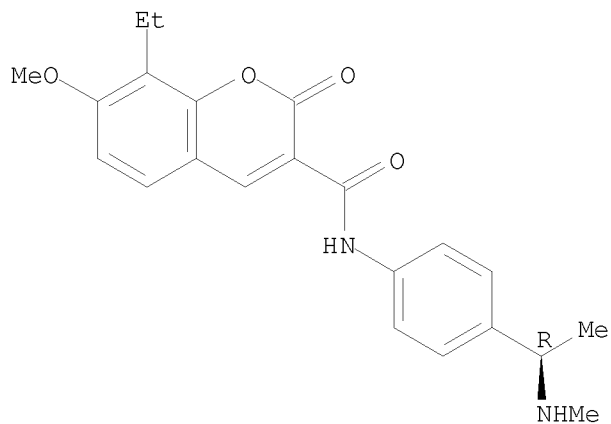
CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-N-[4-[(methylamino)methyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 952503-60-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-7-methoxy-N-[4-[(1R)-1-(methylamino)ethyl]phenyl]-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952503-62-7 CAPLUS

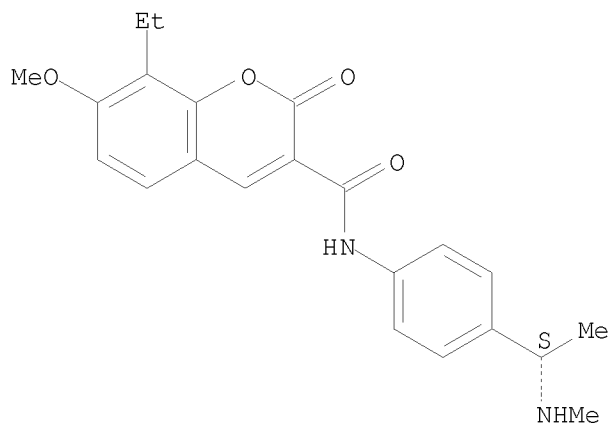
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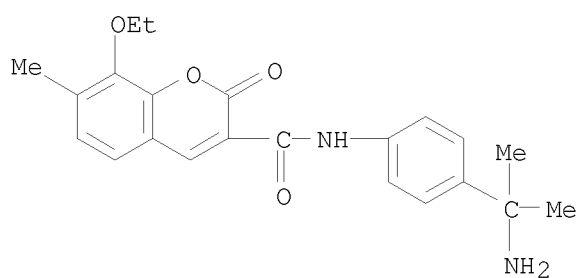
CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-7-methoxy-N-[4-[(1S)-1-(methylamino)ethyl]phenyl]-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952503-63-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-8-ethoxy-7-methyl-2-oxo- (CA INDEX NAME)

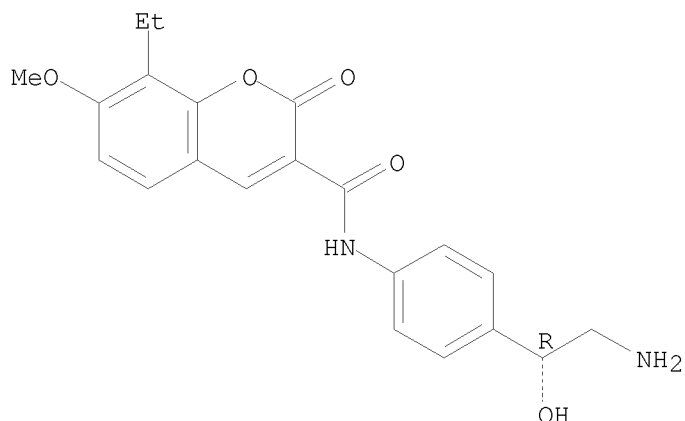


RN 952503-64-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R)-2-amino-1-hydroxyethyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

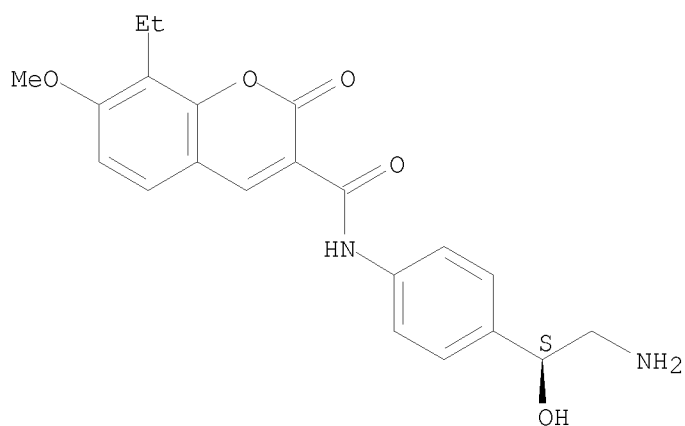
10/513699



RN 952503-65-0 CAPLUS

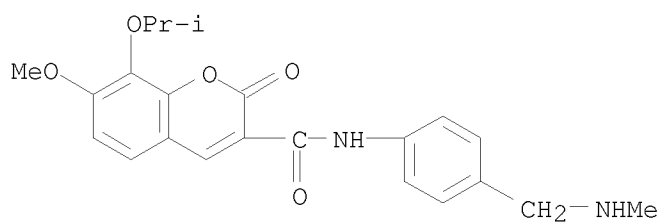
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S)-2-amino-1-hydroxyethyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952503-72-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[(methylamino)methyl]phenyl]-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)



RN 952503-73-0 CAPLUS

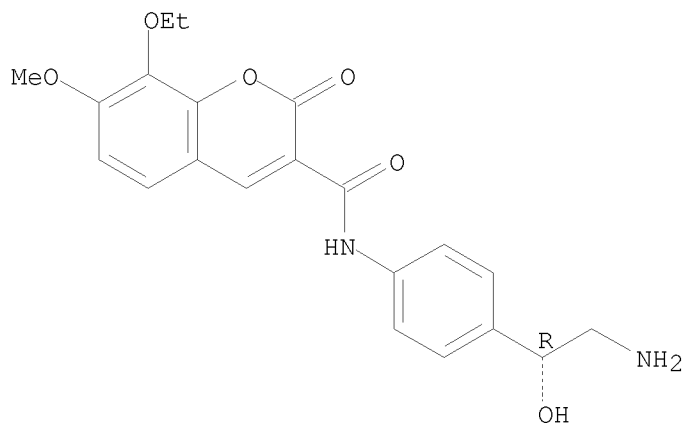
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Erich Leese

10/513699

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R)-2-amino-1-hydroxyethyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

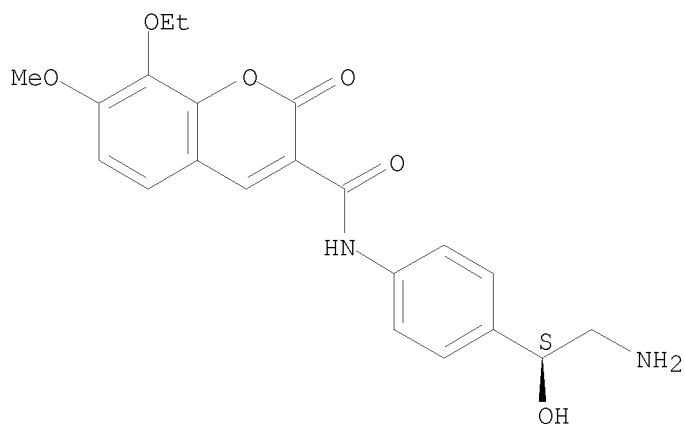
Absolute stereochemistry.



RN 952503-74-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S)-2-amino-1-hydroxyethyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

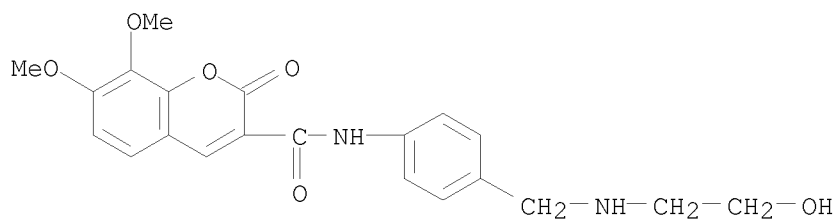
Absolute stereochemistry.



RN 952503-75-2 CAPLUS

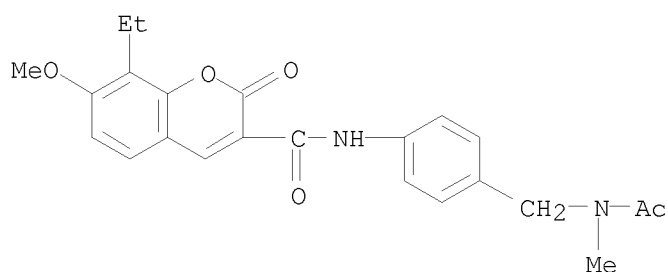
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[2-hydroxyethyl]amino]methyl]phenyl]-7,8-dimethoxy-2-oxo- (CA INDEX NAME)

10/513699



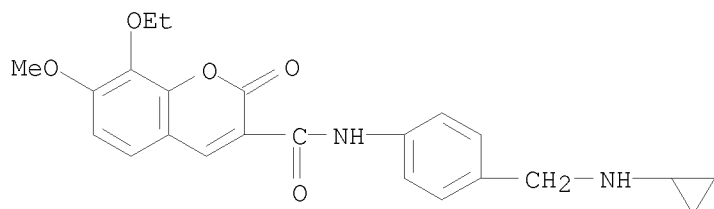
RN 952503-77-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylmethylamino)methyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)



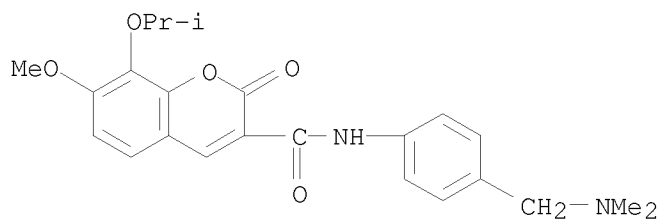
RN 952503-78-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclopropylamino)methyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952503-80-9 CAPLUS

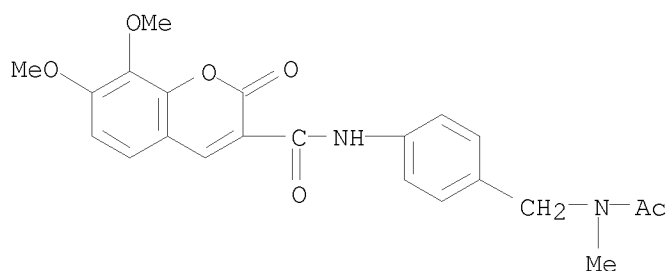
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(dimethylamino)methyl]phenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)



10/513699

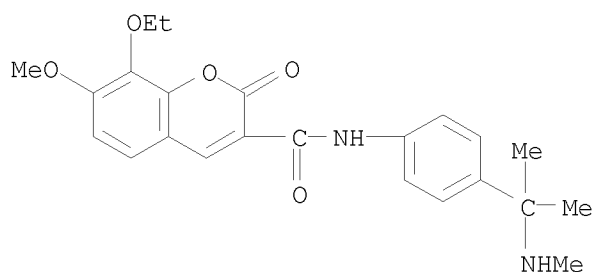
RN 952503-82-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylmethylamino)methyl]phenyl]-7,8-dimethoxy-2-oxo- (CA INDEX NAME)



RN 952503-83-2 CAPLUS

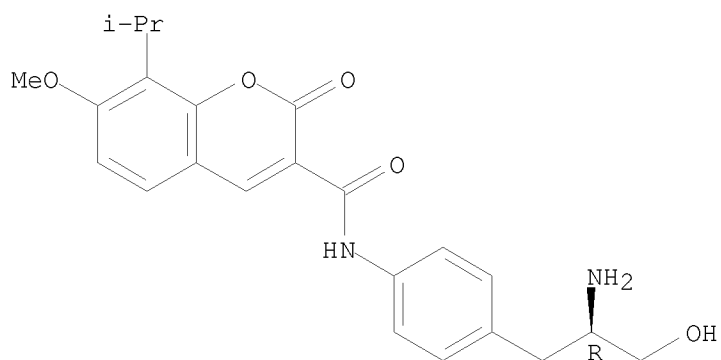
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-7-methoxy-N-[4-[1-methyl-1-(methylamino)ethyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 952503-84-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2R)-2-amino-3-hydroxypropyl]phenyl]-7-methoxy-8-(1-methylethyl)-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



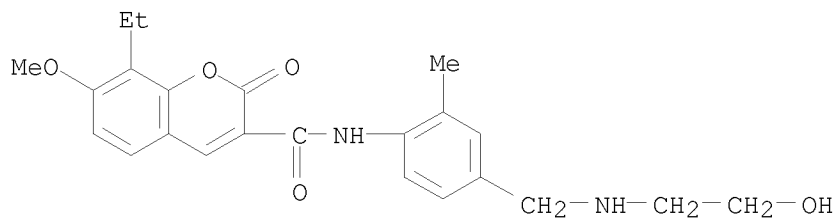
RN 952503-85-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(2-hydroxyethyl)amino]methyl]-2-methylphenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

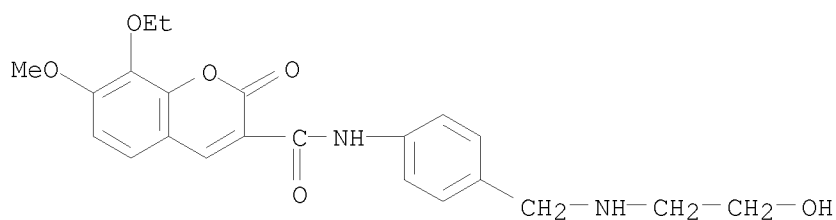
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Erich Leese

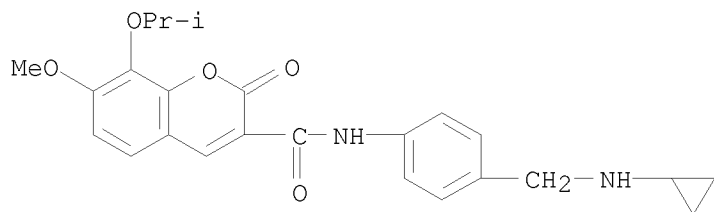
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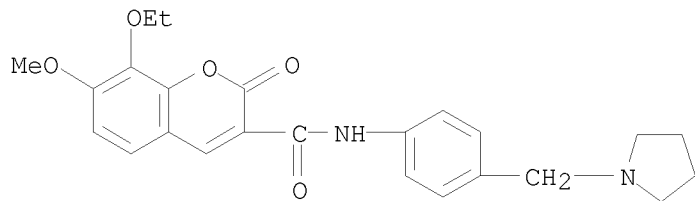
RN 952503-86-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-N-[4-[(2-hydroxyethyl)amino]methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952503-88-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(cyclopropylamino)methyl]phenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)



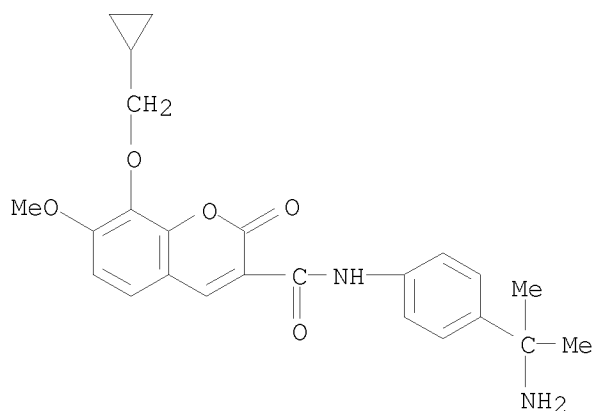
RN 952503-89-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-7-methoxy-2-oxo-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)



RN 952503-91-2 CAPLUS

10/513699

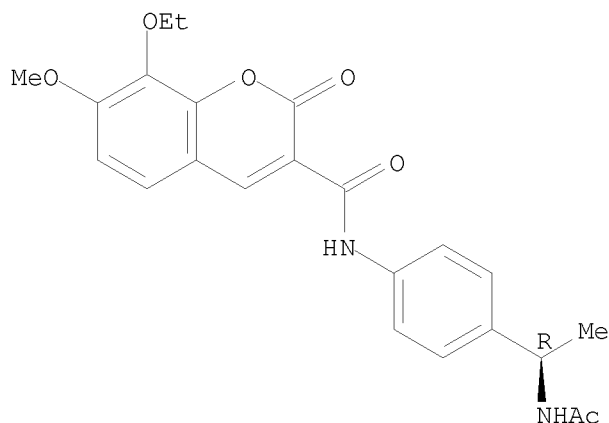
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-8-(cyclopropylmethoxy)-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952503-93-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R)-1-(acetylamino)ethyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

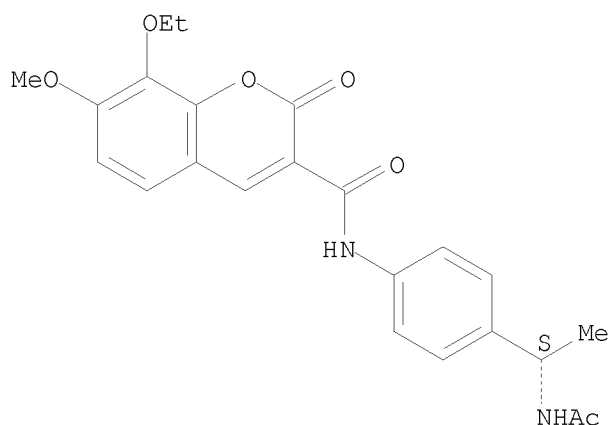


RN 952503-94-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S)-1-(acetylamino)ethyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

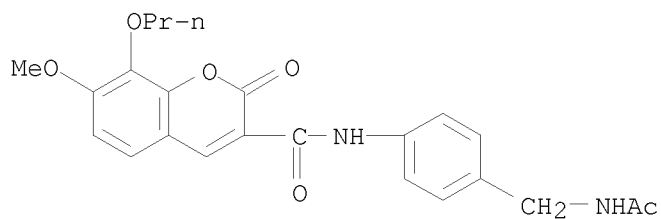
Absolute stereochemistry.

10/513699



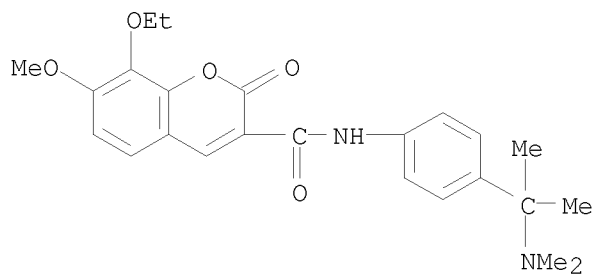
RN 952503-95-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylamino)methyl]phenyl]-7-methoxy-2-oxo-8-propoxy- (CA INDEX NAME)



RN 952503-96-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[1-(dimethylamino)-1-methylethyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)



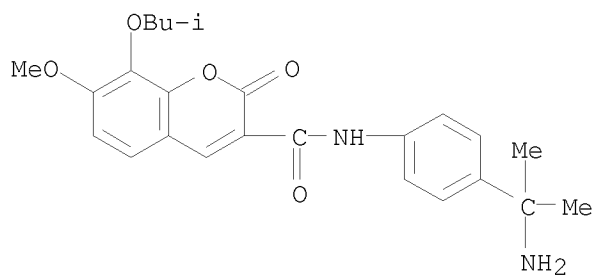
RN 952503-97-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-(2-methylpropoxy)-2-oxo- (CA INDEX NAME)

<12/04/2007>

Erich Leese

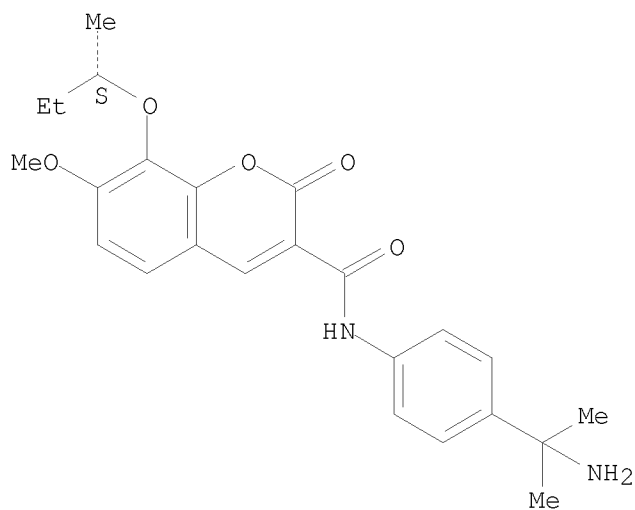
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RN 952503-98-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-[(1S)-1-methylpropoxy]-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

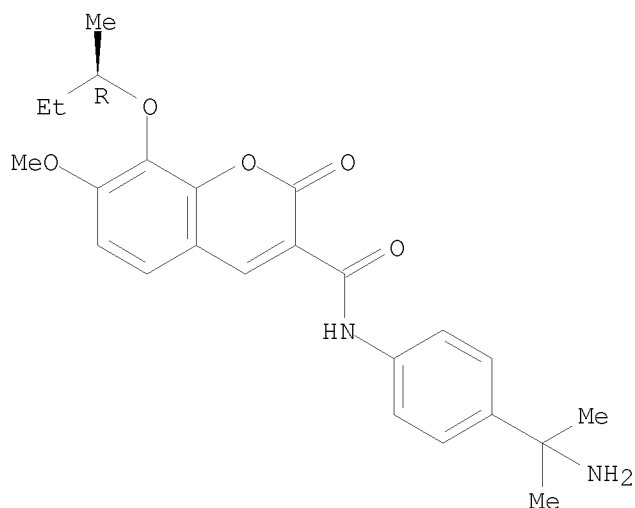


RN 952503-99-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-[(1R)-1-methylpropoxy]-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

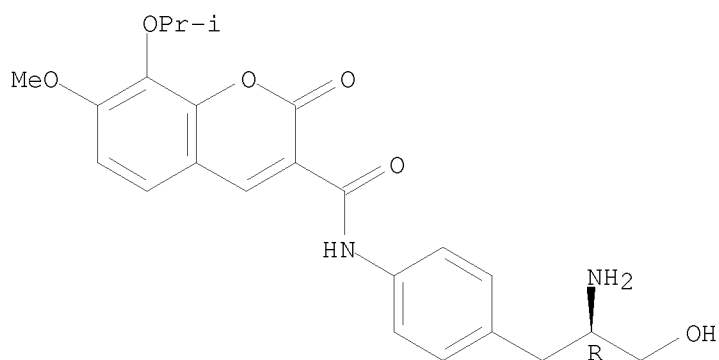
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RN 952504-00-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2R)-2-amino-3-hydroxypropyl]phenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

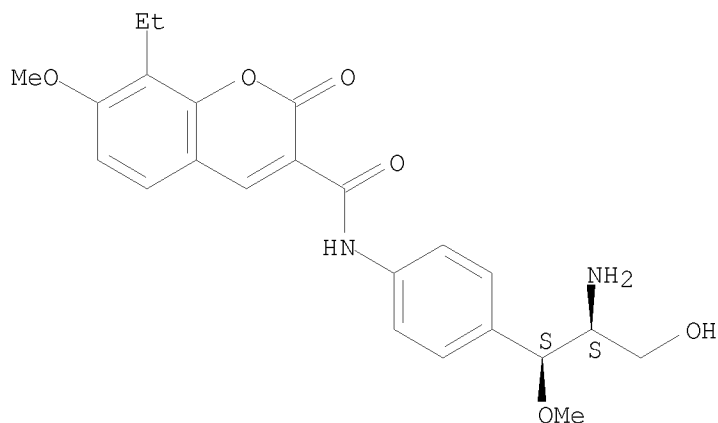


RN 952504-01-7 CAPLUS

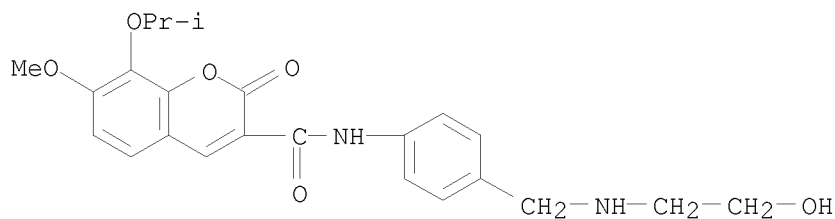
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-amino-3-hydroxy-1-methoxypropyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

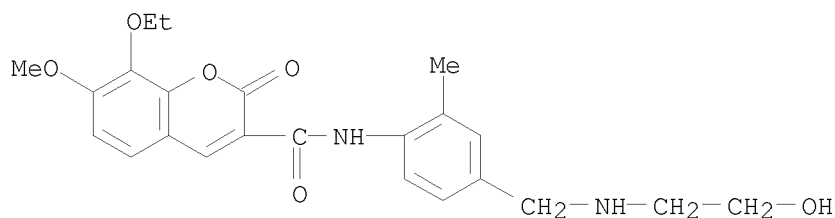
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RN 952504-02-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2-hydroxyethyl)amino]methyl]phenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)

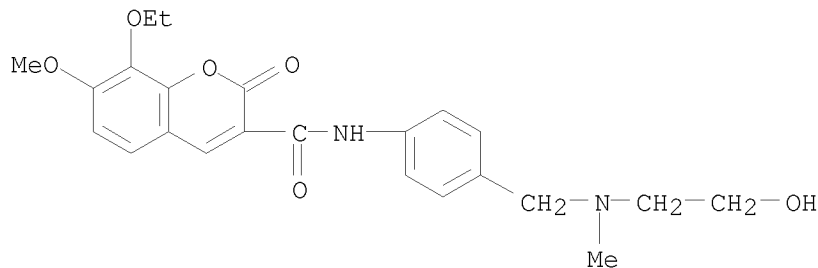


RN 952504-03-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-N-[4-[(2-hydroxyethyl)amino]methyl]-2-methylphenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952504-04-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-N-[4-[(2-hydroxyethyl)methylamino]methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699



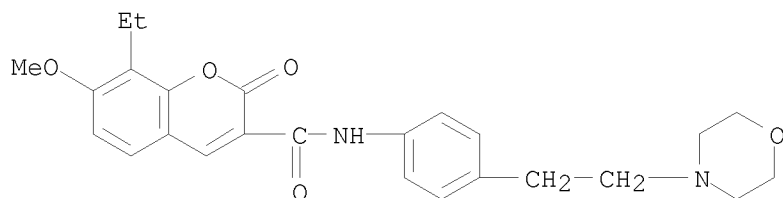
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	952504-37-9P	952504-38-0P	952504-39-1P
	952504-40-4P	952504-42-6P	952504-45-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of chromen-2-one derivs. as S1P1 receptor agonists for treating or preventing disorders or diseases mediated by T lymphocytes)

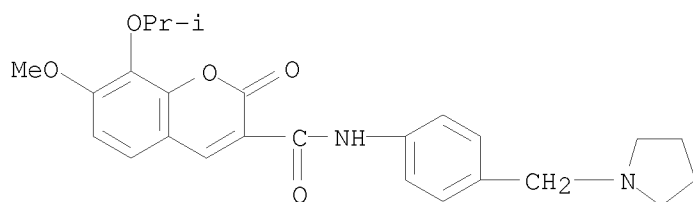
RN 952504-06-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-7-methoxy-N-[4-[2-(4-morpholinyl)ethyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 952504-08-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-(1-methylethoxy)-2-oxo-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)



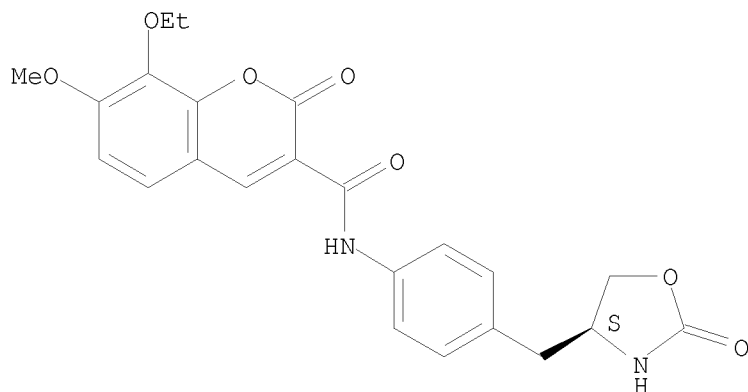
RN 952504-09-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-7-methoxy-2-oxo-N-[4-[(4S)-2-oxo-2,3-dihydro-1H-benzopyran-7-yl]phenyl]- (CA INDEX NAME)

10/513699

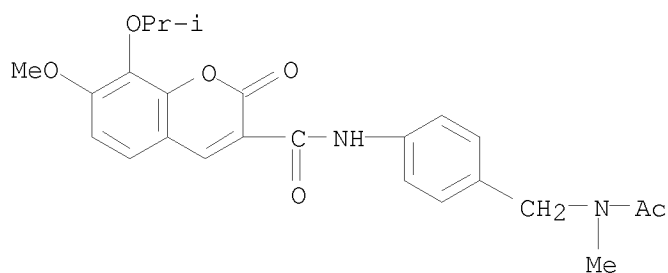
4-oxazolidinyl)methyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 952504-10-8 CAPLUS

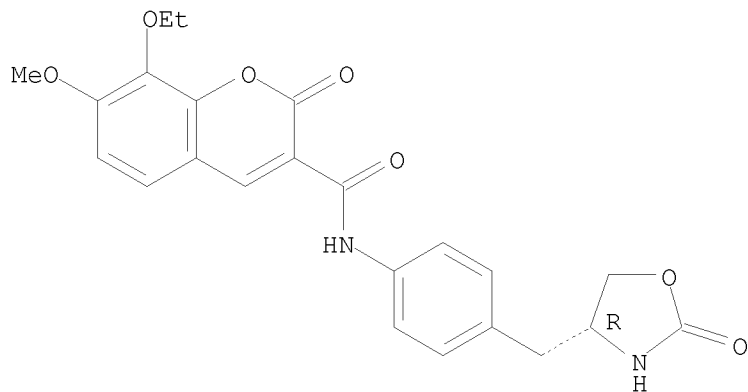
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylmethylamino)methyl]phenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)



RN 952504-11-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-7-methoxy-2-oxo-N-[4-[(4R)-2-oxo-4-oxazolidinyl)methyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

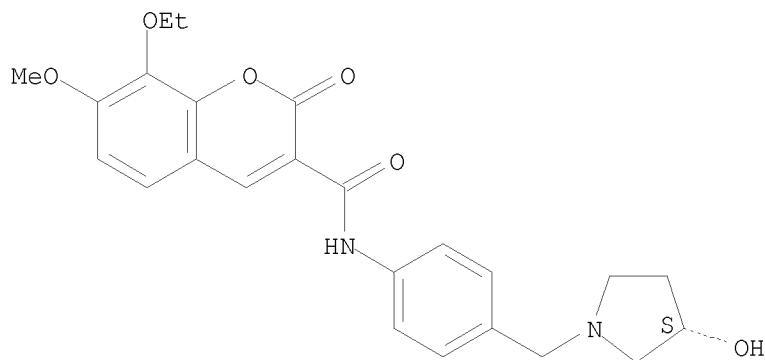
Erich Leese

10/513699

RN 952504-12-0 CAPLUS

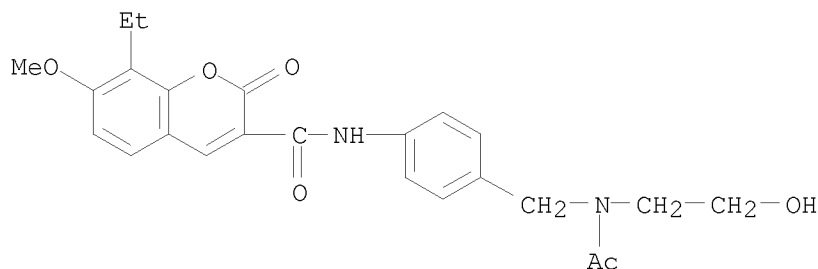
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-N-[4-[(3S)-3-hydroxy-1-pyrrolidinyl]methyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



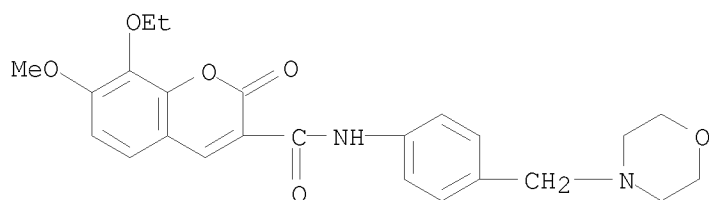
RN 952504-13-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[acetyl(2-hydroxyethyl)amino]methyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952504-14-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-7-methoxy-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo- (CA INDEX NAME)

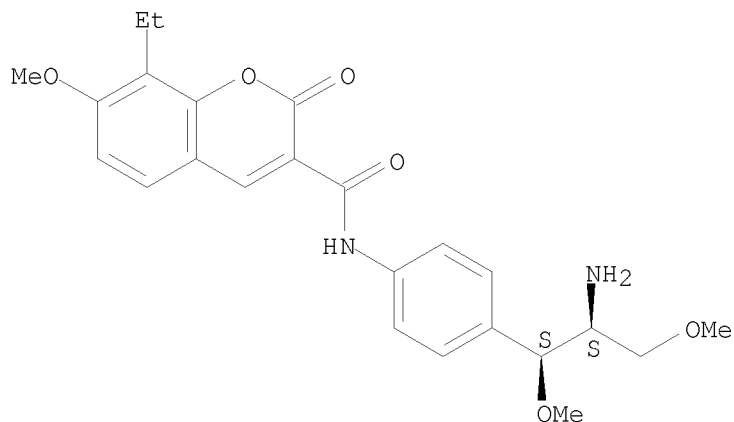


RN 952504-15-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-amino-1,3-dimethoxypropyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699

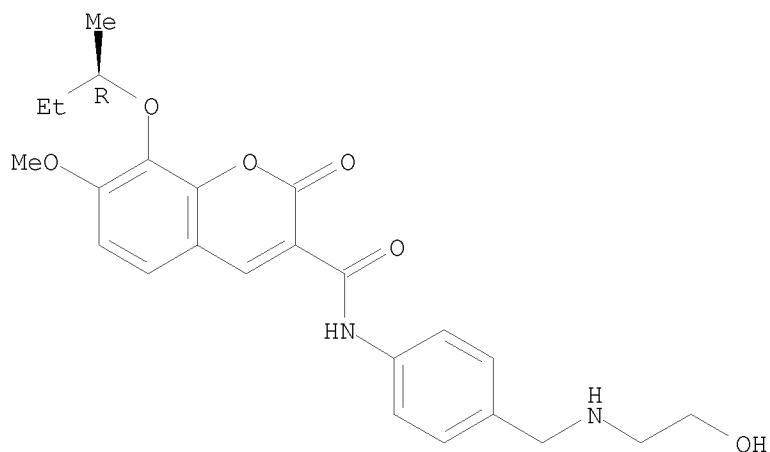
Absolute stereochemistry.



RN 952504-16-4 CAPLUS

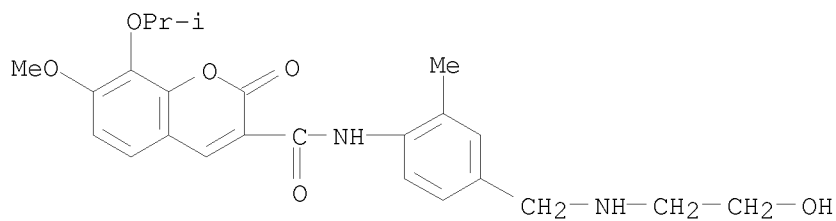
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[[(2-hydroxyethyl)amino]methyl]phenyl]-7-methoxy-8-[(1R)-1-methylpropoxy]-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952504-17-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[[(2-hydroxyethyl)amino]methyl]-2-methylphenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)



<12/04/2007>

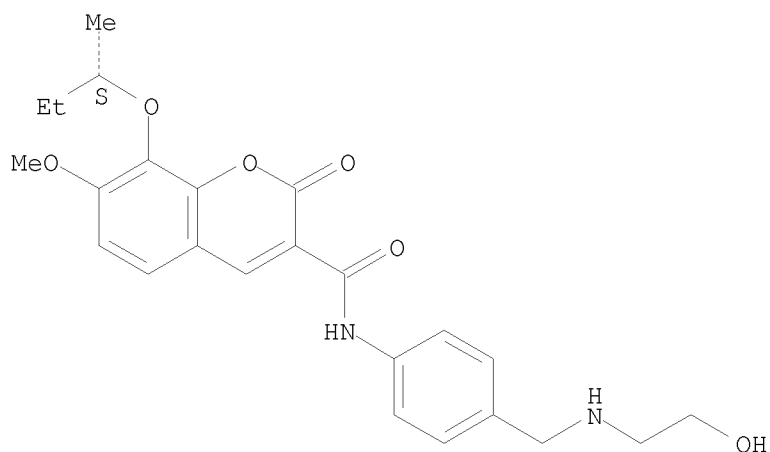
Erich Leese

10/513699

RN 952504-18-6 CAPLUS

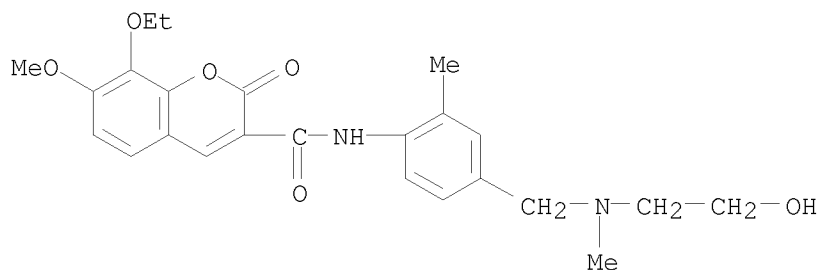
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(2-hydroxyethyl)amino]methyl]phenyl]-7-methoxy-8-[(1S)-1-methylpropoxy]-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952504-19-7 CAPLUS

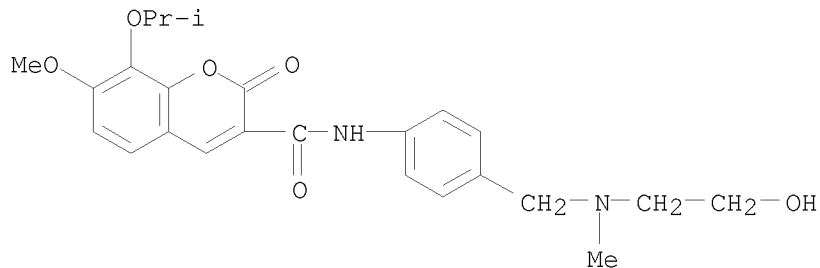
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-N-[4-[[(2-hydroxyethyl)methylamino]methyl]-2-methylphenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952504-21-1 CAPLUS

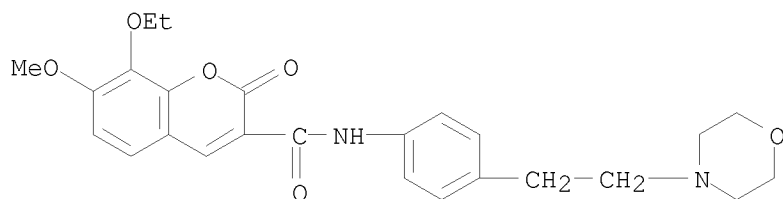
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(2-hydroxyethyl)methylamino]methyl]phenyl]-7-methoxy-8-(1-methylethoxy)-2-oxo- (CA INDEX NAME)

10/513699



RN 952504-23-3 CAPLUS

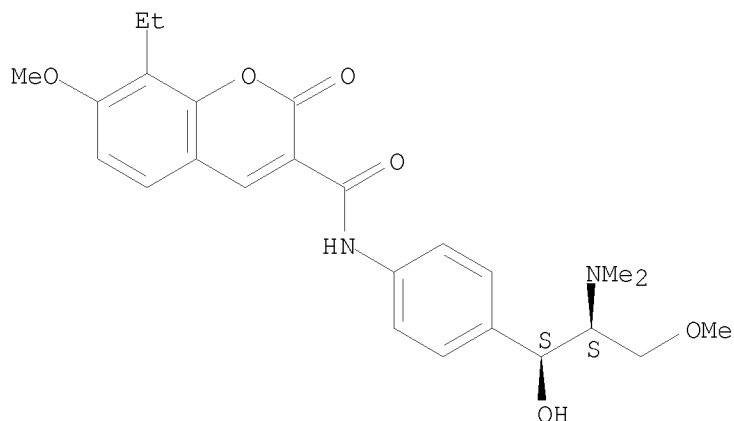
CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-7-methoxy-N-[4-[2-(4-morpholinyl)ethyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 952504-24-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-(dimethylamino)-1-hydroxy-3-methoxypropyl]phenyl]-8-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952504-25-5 CAPLUS

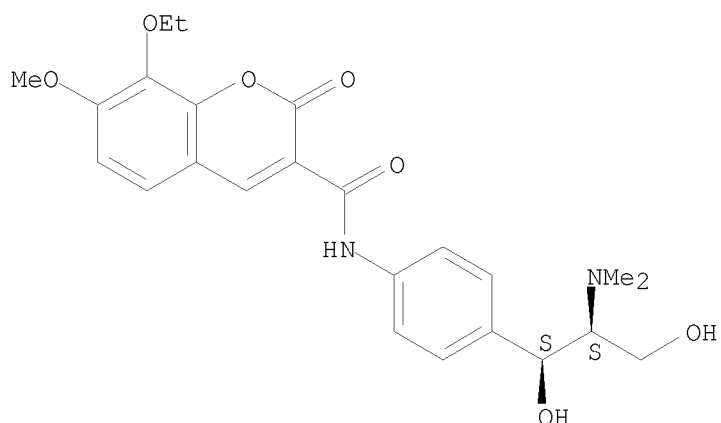
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S,2S)-2-(dimethylamino)-1,3-dihydroxypropyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

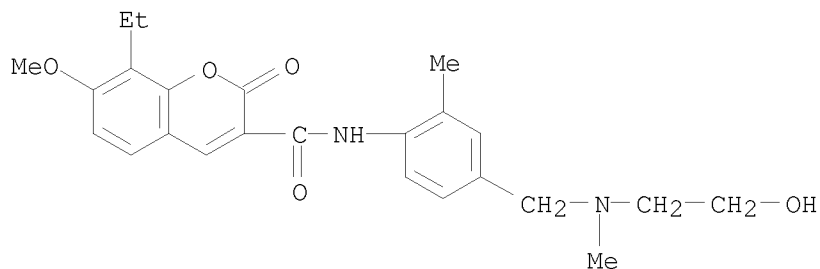
Erich Leese

10/513699



RN 952504-27-7 CAPLUS

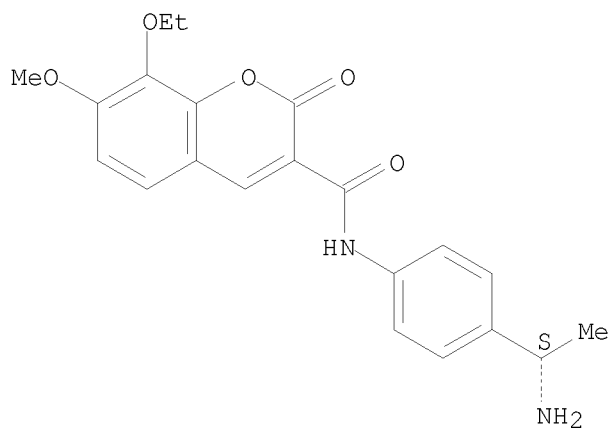
CN 2H-1-Benzopyran-3-carboxamide, 8-ethyl-N-[4-[(2-hydroxyethyl)methylamino]methyl]-2-methylphenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952504-28-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S)-1-aminoethyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

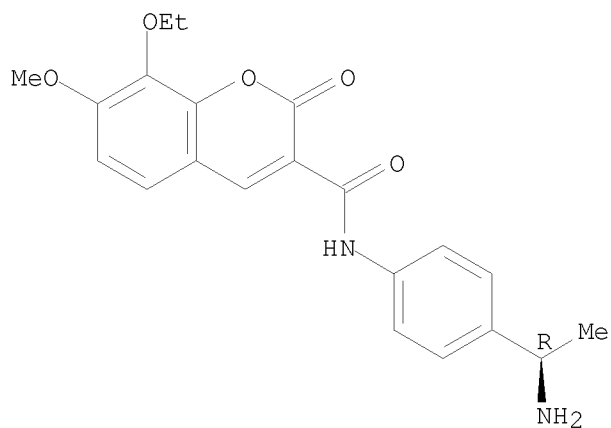
Erich Leese

10/513699

RN 952504-32-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R)-1-aminoethyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

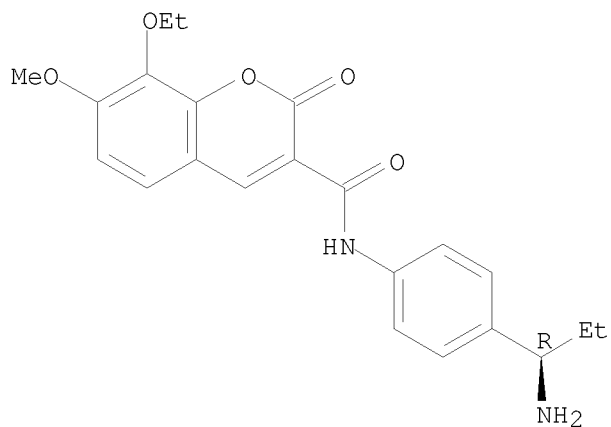
Absolute stereochemistry.



RN 952504-33-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R)-1-aminopropyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

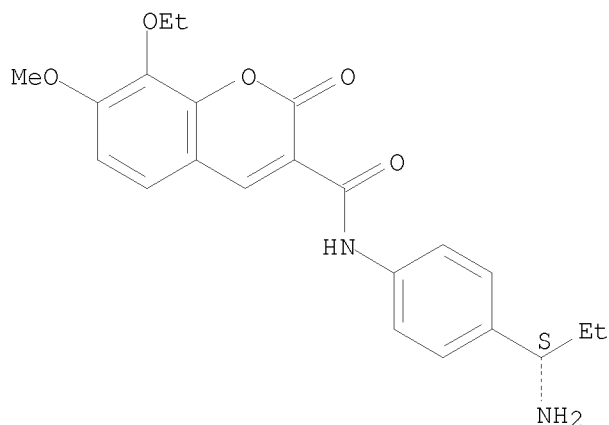


RN 952504-34-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1S)-1-aminopropyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

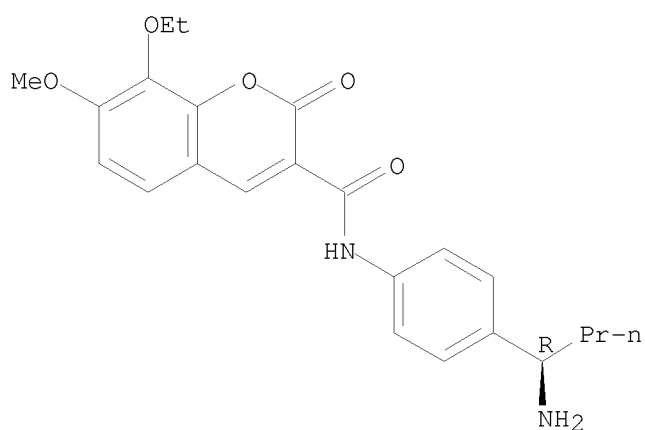
10/513699



RN 952504-35-7 CAPLUS

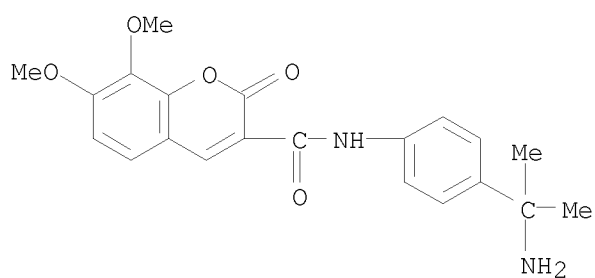
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1R)-1-aminobutyl]phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.



RN 952504-36-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7,8-dimethoxy-2-oxo- (CA INDEX NAME)



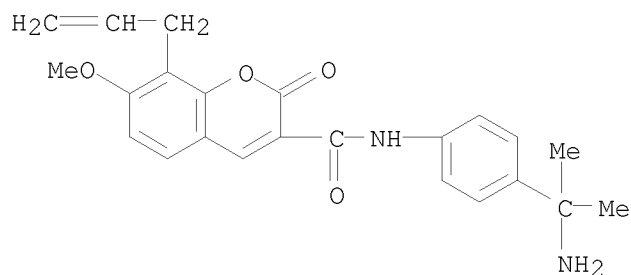
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10/513699

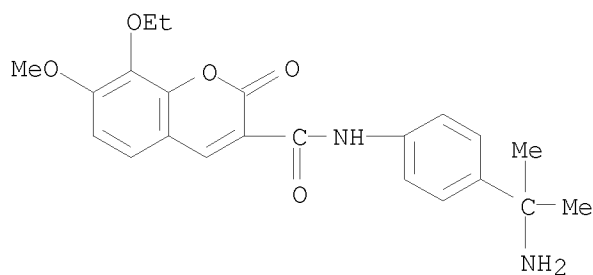
RN 952504-37-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



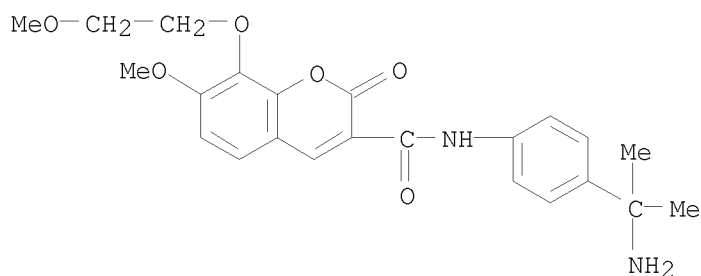
RN 952504-38-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-8-ethoxy-7-methoxy-2-oxo- (CA INDEX NAME)



RN 952504-39-1 CAPLUS

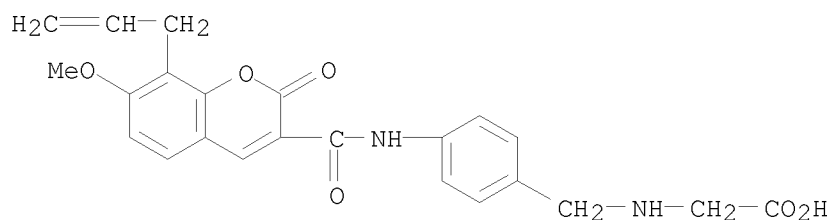
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-7-methoxy-8-(2-methoxyethoxy)-2-oxo- (CA INDEX NAME)



RN 952504-40-4 CAPLUS

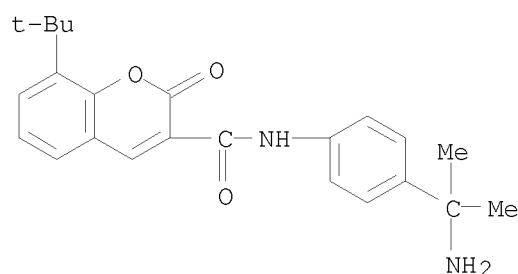
CN Glycine, N-[[[4-[[[7-methoxy-2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]phenyl]methyl]- (CA INDEX NAME)

10/513699



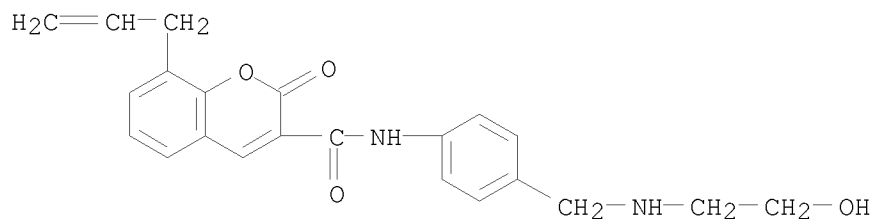
RN 952504-42-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(1-amino-1-methylethyl)phenyl]-8-(1,1-dimethylethyl)-2-oxo- (CA INDEX NAME)



RN 952504-45-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(2-hydroxyethyl)amino]methyl]phenyl]-2-oxo-8-(2-propen-1-yl)- (CA INDEX NAME)



IT 952504-51-7P 952504-55-1P

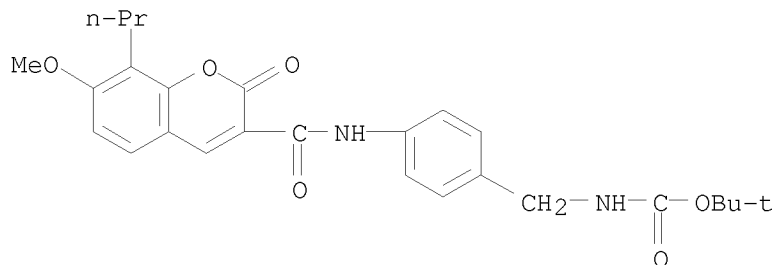
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of chromen-2-one derivs. as S1P1 receptor agonists for treating or preventing disorders or diseases mediated by T lymphocytes)

RN 952504-51-7 CAPLUS

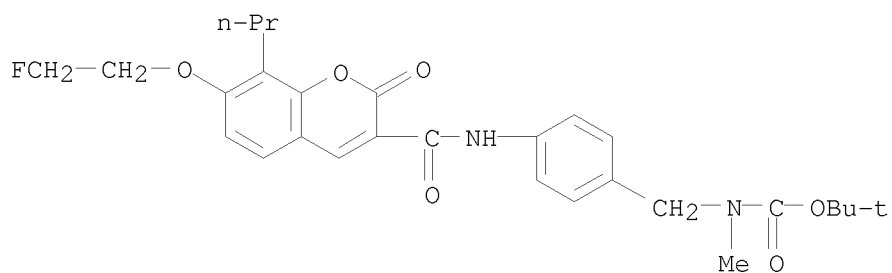
CN Carbamic acid, N-[[4-[[[(7-methoxy-2-oxo-8-propyl-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

10/513699



RN 952504-55-1 CAPLUS

CN Carbamic acid, N-[[4-[[[7-(2-fluoroethoxy)-2-oxo-8-propyl-2H-1-benzopyran-3-yl]carbonyl]amino]phenyl]methyl]-N-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 26 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:718343 CAPLUS

DOCUMENT NUMBER: 147:291255

TITLE: A HPLC method for determination of nicousamide in dog plasma and its application to pharmacokinetic studies

AUTHOR(S): Sheng, Li; Chen, Hui; Li, Yan

CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, 100050, Peop. Rep. China

SOURCE: Journal of Chromatography, B: Analytical Technologies in the Biomedical and Life Sciences (2007), 854(1-2), 99-103

CODEN: JCBAAI; ISSN: 1570-0232

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A sensitive and reproducible high performance liquid chromatog. (HPLC)-UV method for determination of nicousamide, an inhibitor of rennin and transforming

growth factor-beta1 (TGF- β 1) type II receptors, has been developed and validated. Following acetonitrile deproteinization, samples were separated by isocratic reversed-phase HPLC on an Aichrom Bond-AQ C18 column and quantified using UV detection at 320 nm. The mobile phase was acetonitrile/water (ratio 62:38 containing 0.1% H3PO4), with a flow-rate of 1.0 mL/min. A linear curve over the concentration range 5-200 ng/mL ($r^2 = 0.9978$) was obtained. The coeffs. of the variation for the intra- and inter-day precisions ranged from 1.4-10.7% and 1.8-7.1%, resp. The percentage of relative recovery was 91.56-105.45%. The method was used to determine the plasma concentration-time profiles for nicousamide after oral doses of

30, 100 and 300 mg/kg in dogs. A nonlinear pharmacokinetics was found in dogs at doses from 30 to 300 mg/kg. Following 30 mg/kg oral dose, the Cmax and AUC in females were lower than that in male. There is a potential for accumulation in dogs following multiple doses.

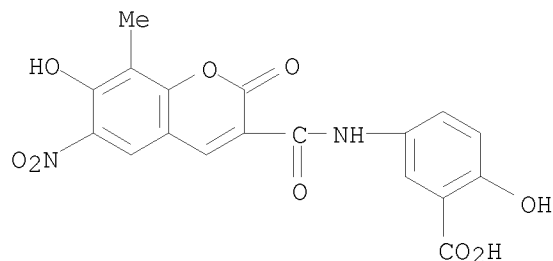
IT 704881-43-6, Nicousamide

RL: ANT (Analyte); PKT (Pharmacokinetics); ANST (Analytical study); BIOL (Biological study)

(HPLC method for nicousamide determination in dog plasma and its application to pharmacokinetic studies)

RN 704881-43-6 CAPLUS

CN Benzoic acid, 2-hydroxy-5-[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

10/513699

REFERENCE COUNT: 9 (1 CITINGS)
THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 27 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:526087 CAPLUS

DOCUMENT NUMBER: 147:161762

TITLE: A novel class of selective anti-Helicobacter pylori

agents 2-oxo-2H-chromene-3-carboxamide derivatives
AUTHOR(S): Chimenti, Franco; Bizzarri, Bruna; Bolasco, Adriana;
Secci, Daniela; Chimenti, Paola; Carradori, Simone;
Granese, Arianna; Rivanera, Daniela; Lilli, Daniela;
Zicari, Alessandra; Scaltrito, M. Maddalena; Sisto, FrancescaCORPORATE SOURCE: Dipartimento di Studi di Chimica e Tecnologia delle
Sostanze Biologicamente Attive, Universita "La
Sapienza", Rome, 00185, ItalySOURCE: Bioorganic & Medicinal Chemistry Letters (2007),
17(11), 3065-3071

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:161762

AB A novel class of selective anti-Helicobacter pylori agents, 2-oxo-2H-chromene-3-carboxamide derivs., were prepared and evaluated for their anti-bacterial activity. All synthesized compds. showed little or no activity against different species of Gram-pos. and Gram-neg. bacteria and against various strains of pathogenic fungi. Some of them exhibited a potent and specific inhibitory effect on the growth of H. pylori, including metronidazole-resistant strains, in the 0.0039-16 µg/mL MIC range. A cytotoxic screening by the Trypan blue dye exclusion assay was also carried out on the most active compds. as anti-H. pylori agents. Among the derivs. examined for their cytotoxic potential, a number of them induced low cytotoxic effects.

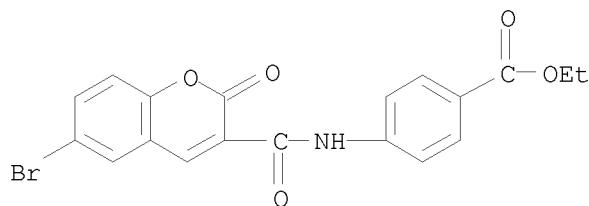
IT 81309-22-0P 312756-47-1P 317327-26-7P

893666-51-8P 943990-91-8P 943990-95-2P

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(selective anti-Helicobacter pylori agents chromene-carboxamide derivs.)

RN 81309-22-0 CAPLUS

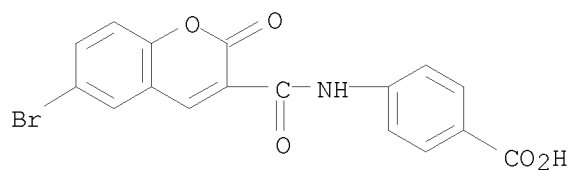
CN Benzoic acid, 4-[[[(6-bromo-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-ethyl ester (CA INDEX NAME)



RN 312756-47-1 CAPLUS

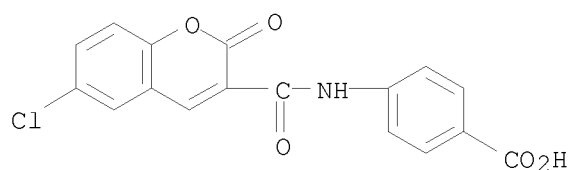
CN Benzoic acid, 4-[[[(6-bromo-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-ethyl ester (CA INDEX NAME)

10/513699



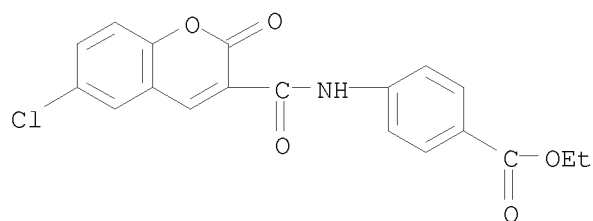
RN 317327-26-7 CAPLUS

CN Benzoic acid, 4-[[(6-chloro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-
(CA INDEX NAME)



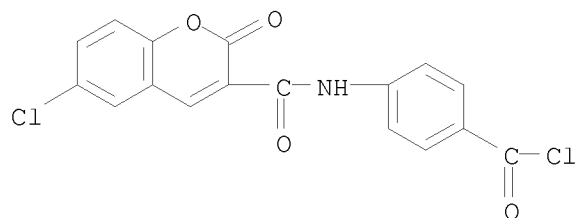
RN 893666-51-8 CAPLUS

CN Benzoic acid, 4-[[(6-chloro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-,
ethyl ester (CA INDEX NAME)



RN 943990-91-8 CAPLUS

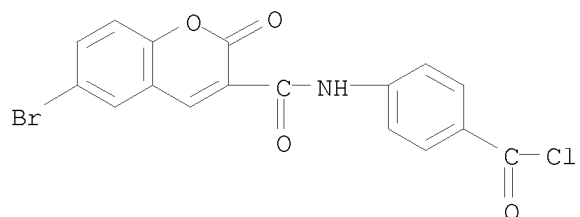
CN Benzoyl chloride, 4-[[(6-chloro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-
(CA INDEX NAME)



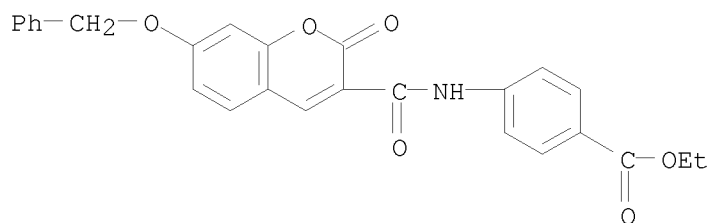
RN 943990-95-2 CAPLUS

CN Benzoyl chloride, 4-[[(6-bromo-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-
(CA INDEX NAME)

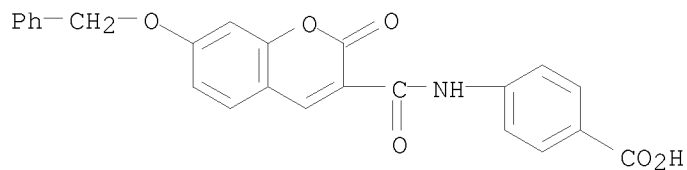
10/513699



IT 943990-77-0P 943990-79-2P 943990-81-6P
943990-83-8P 943990-85-0P 943990-87-2P
943991-06-8P 943991-08-0P 943991-10-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(selective anti-Helicobacter pylori agents chromene-carboxamide
derivs.)
RN 943990-77-0 CAPLUS
CN Benzoic acid, 4-[[[2-oxo-7-(phenylmethoxy)-2H-1-benzopyran-3-
yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)

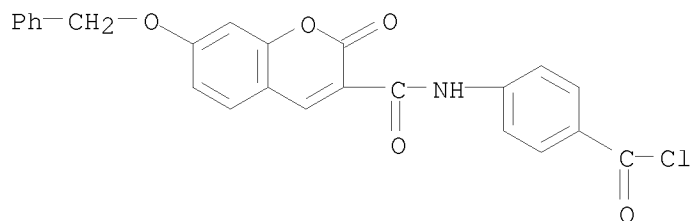


RN 943990-79-2 CAPLUS
CN Benzoic acid, 4-[[[2-oxo-7-(phenylmethoxy)-2H-1-benzopyran-3-
yl]carbonyl]amino]- (CA INDEX NAME)



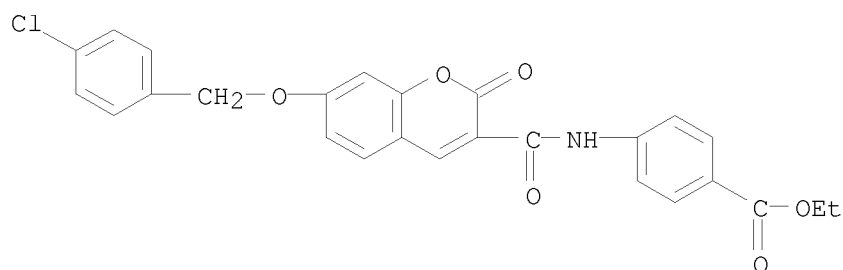
RN 943990-81-6 CAPLUS
CN Benzoyl chloride, 4-[[[2-oxo-7-(phenylmethoxy)-2H-1-benzopyran-3-
yl]carbonyl]amino]- (CA INDEX NAME)

10/513699



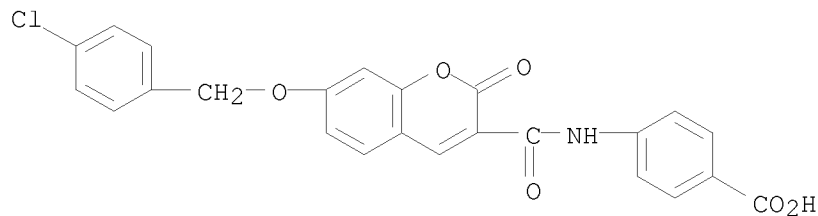
RN 943990-83-8 CAPLUS

CN Benzoic acid, 4-[[[7-[(4-chlorophenyl)methoxy]-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)



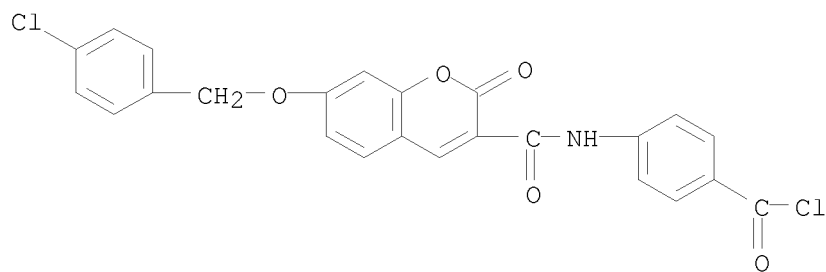
RN 943990-85-0 CAPLUS

CN Benzoic acid, 4-[[[7-[(4-chlorophenyl)methoxy]-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



RN 943990-87-2 CAPLUS

CN Benzoyl chloride, 4-[[[7-[(4-chlorophenyl)methoxy]-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



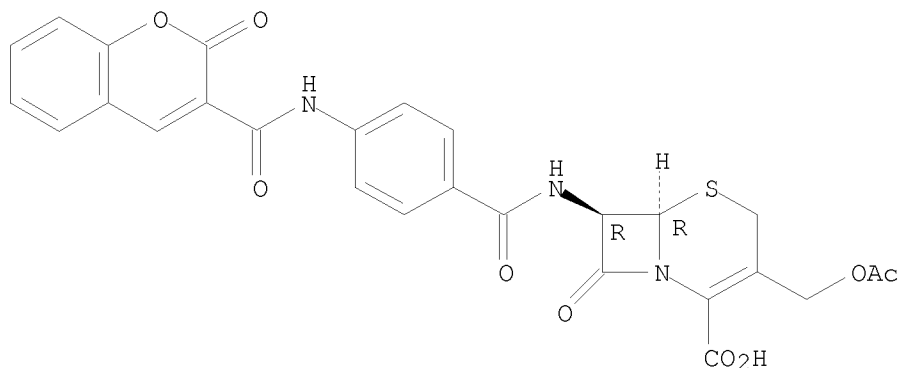
<12/04/2007>

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10/513699

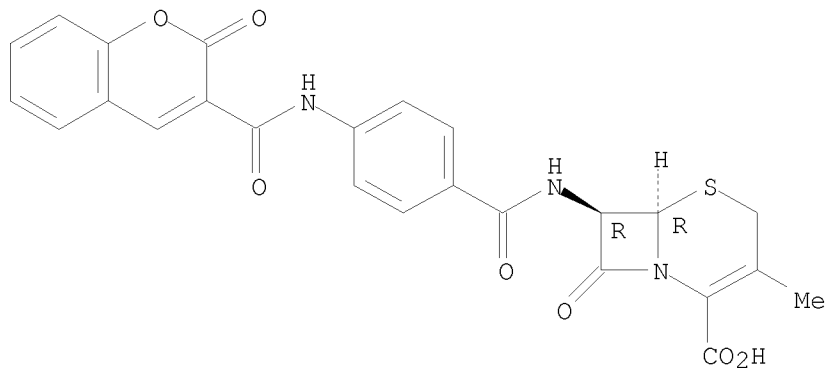
RN 943991-06-8 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-8-oxo-7-[[4-[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]benzoyl]amino]-, (6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



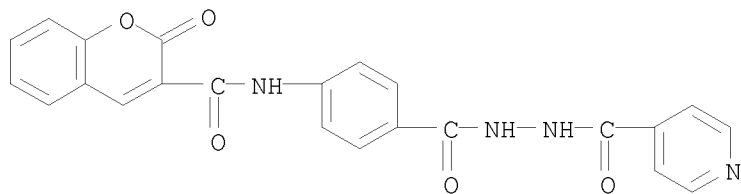
RN 943991-08-0 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-methyl-8-oxo-7-[[4-[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]benzoyl]amino]-, (6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.

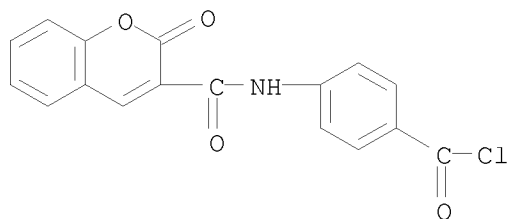


RN 943991-10-4 CAPLUS
CN 4-Pyridinecarboxylic acid, 2-[4-[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]benzoyl]hydrazide (CA INDEX NAME)

10/513699



IT 886760-87-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(selective anti-Helicobacter pylori agents chromene-carboxamide
derivs.)
RN 886760-87-8 CAPLUS
CN Benzoyl chloride, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA
INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 28 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:513714 CAPLUS

DOCUMENT NUMBER: 147:9811

TITLE: Coumarin derivatives, their preparation method, and their medicinal combination and application

INVENTOR(S): Xie, Ping; Chen, Xiaoguang; Xu, Shiping; Li, Hongyan; Li, lanmin; Zhou, Yanli; Liu, Yue; Luo, Zhigang; Jiao, Xiaozhen; Zheng, Xuguang

PATENT ASSIGNEE(S): Institute of Materia Medica, Chinese Academy of Medical Sciences, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 69pp.
CODEN: CNXXEV

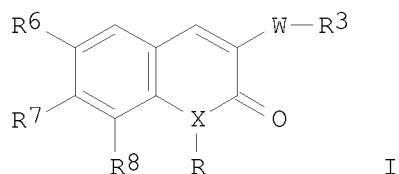
DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1955175	A	20070502	CN 2005-10116739	20051028
PRIORITY APPLN. INFO.:			CN 2004-10086238	A 20041028
OTHER SOURCE(S):	MARPAT	147:9811		
GI				



AB The claimed coumarin and dihydroquinolinone derivs. have general formula I (X = O, NH; W = CO, CH₂; R = C1-C6 straight or branched alkyl; R₃ = substituted or non-substituted N-pyrrolyl; R₆ = H, C1-C4 alkyl, NO₂; R₇ = H, OH, C1-C4 alkyloxy; R₈ = H, C1-C8 alkyl, alkyloxy, NO₂). The claimed compds. are prepared from substituted 3-carboxycoumarin condensation with the corresponding substituted amine, or from substituted aniline and chloroacetyl chloride to form an intermediate, then cyclization react with POC13 and DMF to give substituted 3-chloromethylquinolinone, finally substitution reaction with substituted pyrrole compds. at chloromethyl group, after hydrolysis to give the title products. The claimed compds. and their medicinal salts can be used as medicine for treating chronic renal failure, diabetes, hypertension and cardiovascular and cerebrovascular disease and hepatic cirrhosis and prostatic hyperplasia.

IT 937256-89-8P

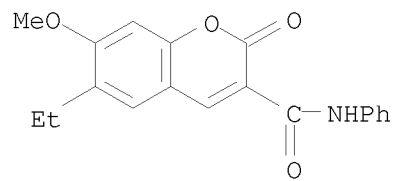
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis of coumarin and dihydroquinolinone derivs. and their medicinal application)

RN 937256-89-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



<12/04/2007>

Erich Leese

L4 ANSWER 29 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:436671 CAPLUS

DOCUMENT NUMBER: 148:379957

TITLE: Some novel sulfonyl amino acids and dipeptides derivatives

AUTHOR(S): El-Sayed, Ragab A.

CORPORATE SOURCE: Chemistry Department, Al-Azhar University, Cairo, Egypt

SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (2007), 182(5), 1153-1162
CODEN: PSSLEC; ISSN: 1042-6507

PUBLISHER: Taylor & Francis, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 2-Oxo-N-phenyl-2H-1-Benzopyran-3-carboxamide reacted with chlorosulfonic acid to give the corresponding sulfonyl chloride, i.e., 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]benzenesulfonyl]chloride. However, isonicotinic acid anilide and nicotinic acid anilide reacted with chlorosulfonic acid in a 1:6 molar ratio, only for conversion into sulfonyl chlorides, i.e., 4-[(4-pyridinylcarbonyl)amino]benzenesulfonyl chloride and 4-[(3-pyridinylcarbonyl)amino]benzenesulfonyl chloride. Treatment with nucleophilic reagents afforded amino acid derivs. Some of the corresponding Me esters were also prepared. Hydrazinolysis of some Me esters yielded hydrazides. Coupling reactions of some amino acid derivs. with amino acid Me ester hydrochloride in THF-Et₃N medium using the dicyclohexyl carbodiimide DCC furnished the desired dipeptide Me esters. The spectral properties of the compds. are briefly discussed.

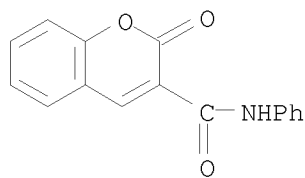
IT 54396-25-7, 2-Oxo-N-phenyl-2H-1-Benzopyran-3-carboxamide

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of [[[oxo]benzopyranyl]carbonyl]amino]phenyl]sulfonyl]amino acid and [[[pyridinyl]carbonyl]amino]phenyl]sulfonyl]amino acid derivs. and their esters and hydrazides)

RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



IT 118428-98-1P 1015066-93-9P 1015066-94-0P

1015066-96-2P

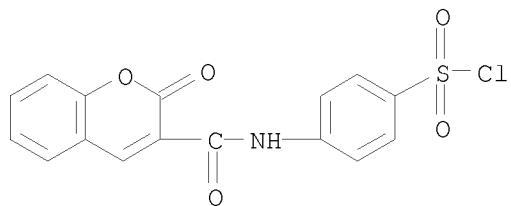
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of [[[oxo]benzopyranyl]carbonyl]amino]phenyl]sulfonyl]amino acid and [[[pyridinyl]carbonyl]amino]phenyl]sulfonyl]amino acid derivs. and their esters and hydrazides)

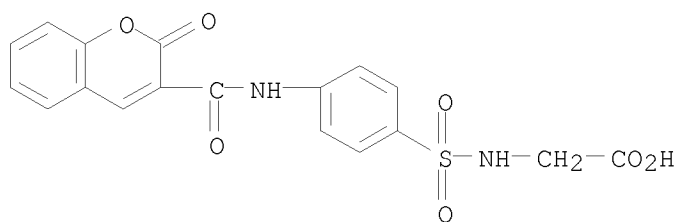
RN 118428-98-1 CAPLUS

CN Benzenesulfonyl chloride, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

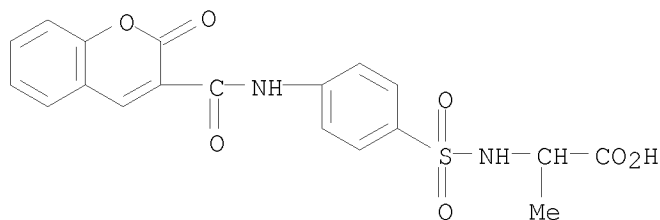
10/513699



RN 1015066-93-9 CAPLUS
CN Glycine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]- (CA INDEX NAME)



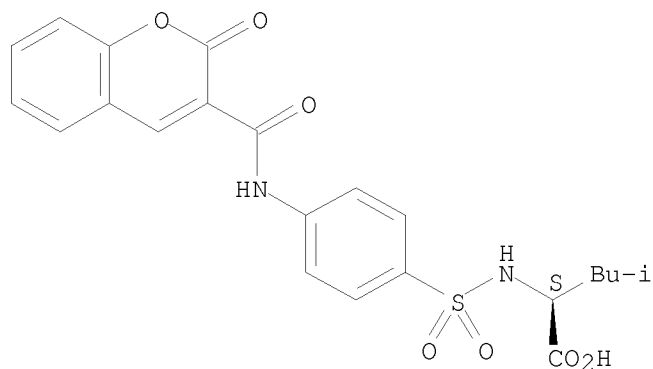
RN 1015066-94-0 CAPLUS
CN Alanine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]- (CA INDEX NAME)



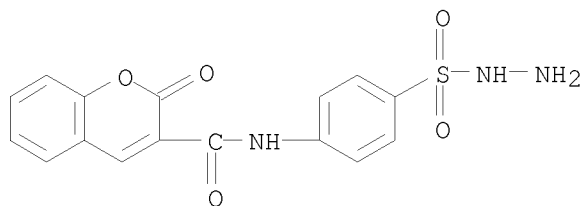
RN 1015066-96-2 CAPLUS
CN L-Leucine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

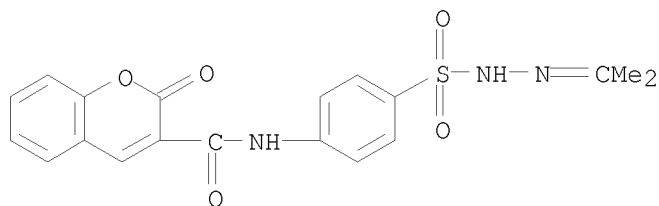
10/513699



IT 118429-02-0P 118429-03-1P 1015066-95-1P
1015066-97-3P 1015066-98-4P 1015066-99-5P
1015067-00-1P 1015067-01-2P 1015067-02-3P
1015067-03-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of [[[oxo]benzopyranyl]carbonyl]amino]phenyl]sulfonyl]amino
acid and [[[pyridinyl]carbonyl]amino]phenyl]sulfonyl]amino acid
derivs. and their esters and hydrazides)
RN 118429-02-0 CAPLUS
CN Benzenesulfonic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-,
hydrazide (CA INDEX NAME)



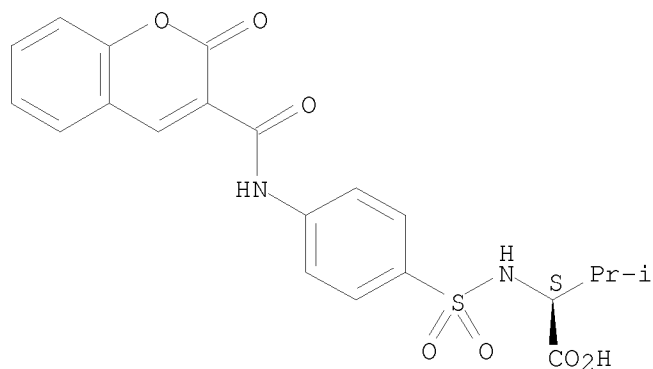
RN 118429-03-1 CAPLUS
CN Benzenesulfonic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-,
2-(1-methylethylidene)hydrazide (CA INDEX NAME)



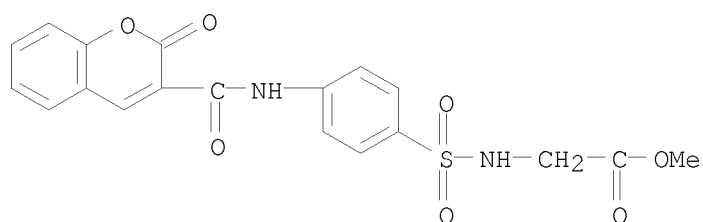
RN 1015066-95-1 CAPLUS
CN L-Valine, N-[[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]-
(CA INDEX NAME)

Absolute stereochemistry.

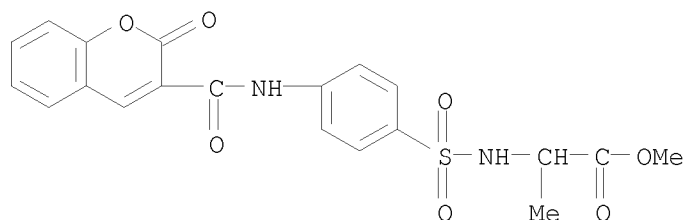
10/513699



RN 1015066-97-3 CAPLUS
CN Glycine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]-, methyl ester (CA INDEX NAME)



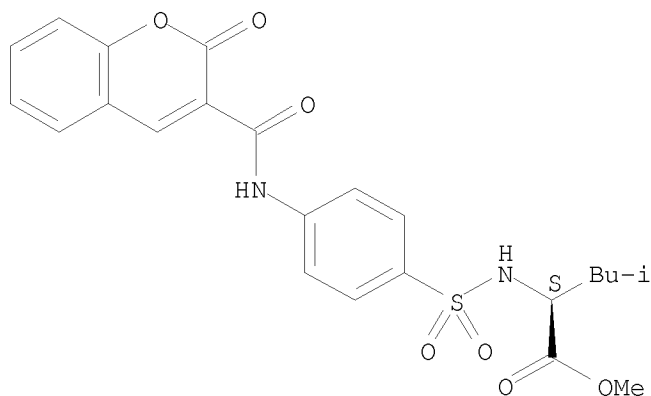
RN 1015066-98-4 CAPLUS
CN Alanine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]-, methyl ester (CA INDEX NAME)



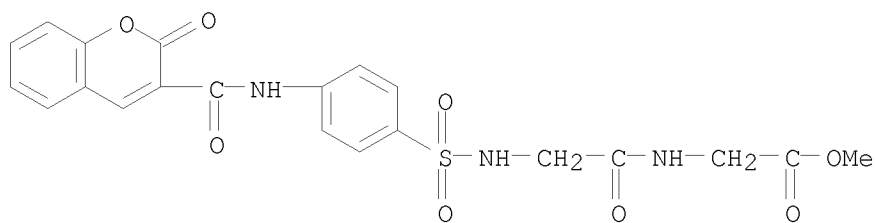
RN 1015066-99-5 CAPLUS
CN L-Leucine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

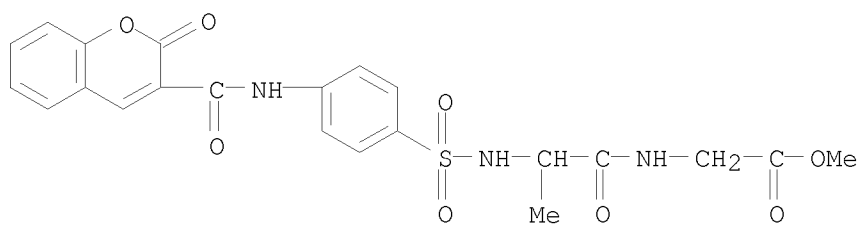
10/513699



RN 1015067-00-1 CAPLUS
CN Glycine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]glycyl-, methyl ester (CA INDEX NAME)



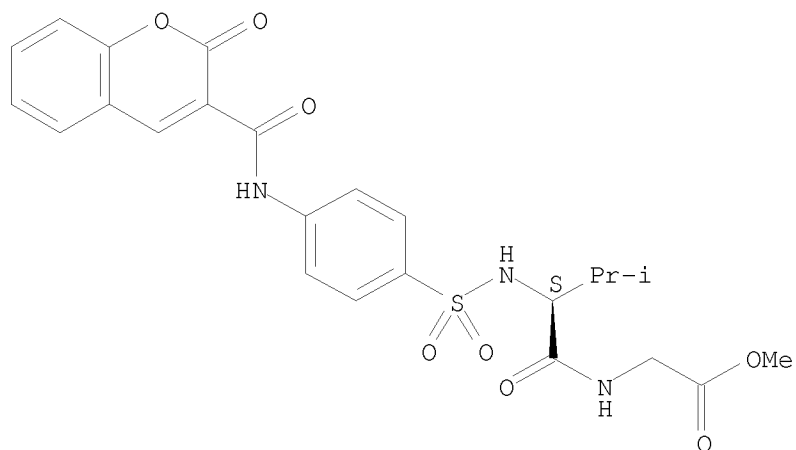
RN 1015067-01-2 CAPLUS
CN Glycine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]alanyl-, methyl ester (CA INDEX NAME)



RN 1015067-02-3 CAPLUS
CN Glycine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]-L-valyl-, methyl ester (CA INDEX NAME)

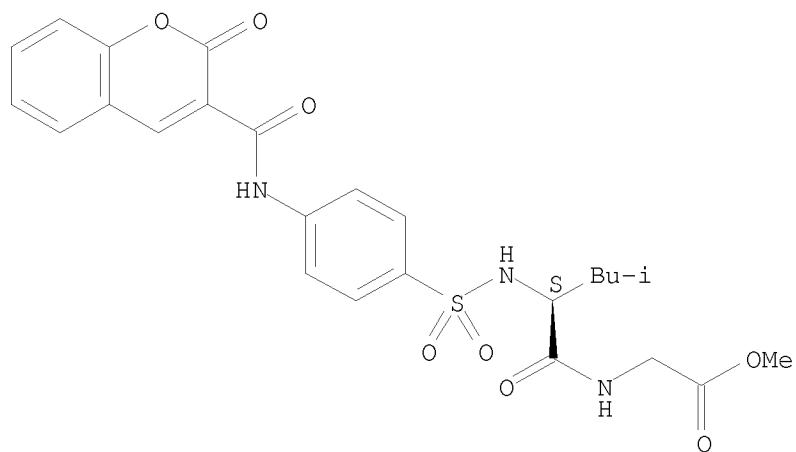
Absolute stereochemistry.

10/513699



RN 1015067-03-4 CAPLUS
CN Glycine, N-[[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]sulfonyl]-L-leucyl-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 30 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:967882 CAPLUS

DOCUMENT NUMBER: 147:234963

TITLE: Reaction of N-substituted 2-oxochromene-3-carboxamides with bromo derivatives of zinc enolates prepared from alkyl 2,2-dialkyl-4,4-dibromo-3-oxoalkanoates and zinc

AUTHOR(S): Shchepin, V. V.; Silaichev, P. S.; Russkikh, N. Yu.; Vakhnin, M. I.; Kodess, M. I.

CORPORATE SOURCE: Perm State University, Perm, 614990, Russia

SOURCE: Russian Journal of Organic Chemistry (2006), 42(8), 1157-1163

CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: Pleiades Publishing, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:234963

AB Zinc enolates obtained from Et 2,2-dialkyl-4,4-dibromo-3-oxobutanoates and zinc react with N-substituted 2-oxochromene-3-carboxamides forming Et 3-{1a-(R3-carbamoyl)-2-oxo-1a,7b-dihydrocyclopropa[c]chromen-1-yl}-2,2-dialkyl-3-oxopropanoate isomer with a Z-position of methine hydrogens. Zinc enolates prepared from alkyl 2,2-dialkyl-4,4-dibromo-3-oxopentanoates and -hexanoates and zinc react with N-substituted 2-oxochromene-3-carboxamides to give rise to esters of 3-{1-alkyl-1a-(R3-carbamoyl)-2-oxo-1a,7b-dihydrocyclopropa-[c]chromen-1-yl}-2,2-dialkyl-3-oxopropanoic acid as isomers with the E-position of the methine proton and the alkyl substituent. The reaction carried out in the presence of small quantities of THF and HMPA leads to the formation of 9c-alkyl-2-R3-9b,9c-dihydro-5-oxa-2-azacyclopenta[2,3]-cyclopropa[1,2-a]naphthalene-1,3,4-triones. Zinc enolates from alkyl 2,2-dialkyl-4,4-dibromo-3-oxopentanoates and -hexanoates and zinc with the secondary amides of 2-oxochromene-3-carboxylic acid form alkyl 3-{2-oxo-1a-(aminocarbonyl)-2-oxo-1a,7b-dihydrocyclopropa[c]chromen-1-yl}-2,2-R2,R2-3-oxopropanoates as single geometrical isomers.

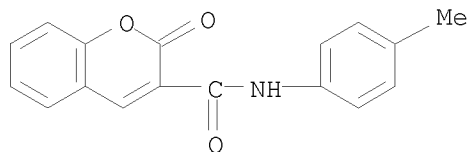
IT 1847-00-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of N-substituted 2-oxochromene-3-carboxamides with zinc enolates of 2,2-dialkyl-4,4-dibromo-3-oxoalkanoates)

RN 1847-00-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 31 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:961185 CAPLUS

DOCUMENT NUMBER: 147:118159

TITLE: Reformatsky reaction of methyl
1-bromocyclohexane-1-carboxylate with
N-aryl-2-oxochromene-3-carboxamides

AUTHOR(S): Shchepin, V. V.; Kirillov, N. F.; Vakhrin, M. I.;
Bayanova, O. B.; Shurov, S. N.; Silaichev, P. S.

CORPORATE SOURCE: Perm State University, Perm, 614990, Russia

SOURCE: Russian Journal of General Chemistry (2006), 76(7),
1146-1149

CODEN: RJGCEK; ISSN: 1070-3632

PUBLISHER: Pleiades Publishing, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:118159

AB The Reformatskii reagent generated from Me
1-bromocyclohexane-1-carboxylate reacted with
N-aryl-2-oxochromene-3-carboxamides and
N-aryl-6-bromo-2-oxochromene-3-carboxamides to give, depending on the
conditions, N-aryl-(6-bromo)-4-(1-methoxycarbonylcyclohexyl)-2-oxochroman-
3-carboxamides or 3-aryl-(9-bromo)-1,1-pentamethylene-2,3,4,4a,5,10b-
hexahydro-1H-chromeno[3,4-c]pyridine-2,4,5-triones. The products were
isolated as a single diastereoisomer.

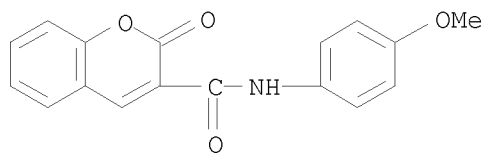
IT 1846-94-2 1847-00-3 38485-82-4
38485-85-7 38485-93-7 54396-25-7
74555-99-0 301818-11-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(Reformatskii reaction of Me 1-bromocyclohexane-1-carboxylate with
N-aryl-2-oxochromene-3-carboxamides)

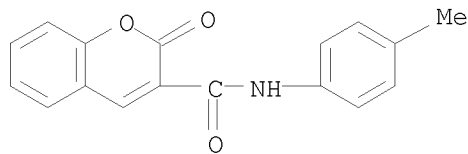
RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

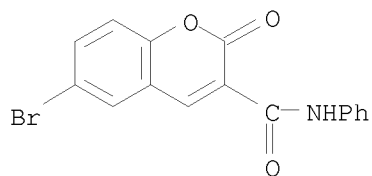
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-82-4 CAPLUS

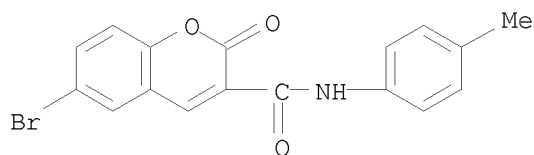
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



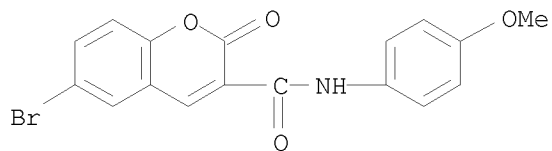
RN 38485-85-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



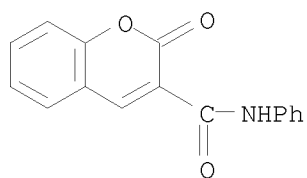
RN 38485-93-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



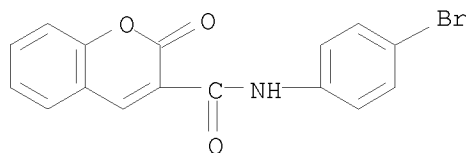
RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



RN 74555-99-0 CAPLUS

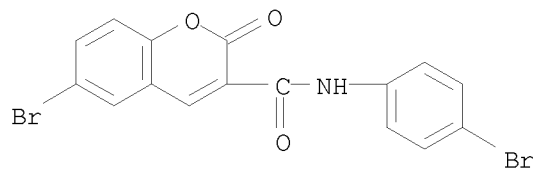
CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



10/513699

RN 301818-11-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 32 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:796822 CAPLUS

DOCUMENT NUMBER: 147:9750

TITLE: Reaction of organozinc reagents derived from dialkyl
2,2-dibromomalonates and methyl
4,4-dibromo-3-oxoalkanoates with
2-oxochromene-3-carboxamides

AUTHOR(S): Shchepin, V. V.; Silaichev, P. S.; Stepanyan, Yu. G.;
Vakhrin, M. I.

CORPORATE SOURCE: Perm State University, Perm, 614990, Russia

SOURCE: Russian Journal of General Chemistry (2006), 76(6),
942-945

CODEN: RJGCEK; ISSN: 1070-3632

PUBLISHER: Pleiades Publishing, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:9750

AB Organozinc compds. obtained by treatment of dialkyl 2,2-dibromomalonates with zinc reacted with N-substituted 2-oxochromene-3-carboxamides to give dialkyl 1a-R-carbamoyl-2-oxo-1a,7b-dihydro-2H-cyclopropa[c]chromene-1,1-dicarboxylates or alkyl 2-R-1,3,4-trioxo-2,3-dihydro-1H,9bH-chromeno[3',4':1,3]-cyclopropa[1,2-c]pyrrole-9c-carboxylates. Reactions of N-substituted 2-oxochromene-3-carboxamides with zinc enolates derived from Me 4,4-dibromo-3-oxoalkanoates led to the formation of the corresponding 9c-alkyl-2-R-2,3-dihydrochromeno[3',4':1,3]cyclopropa[1,2-c]pyrrole-1,3,4-triones [i.e., [1]benzopyrano[3',4':1,3]cyclopropa[1,2-c]pyrrole derivs.].

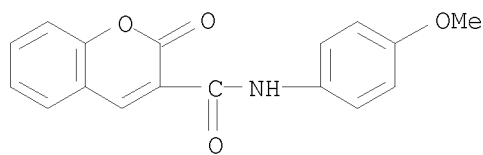
IT 1846-94-2 1846-98-6 1847-00-3
54396-25-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of benzo[b]cyclopropa[d]pyran derivs. via reaction of
dibromomalonate-derived zinc enolate reagents with
N-(phenyl) (oxo)benzopyrancarboxamide)

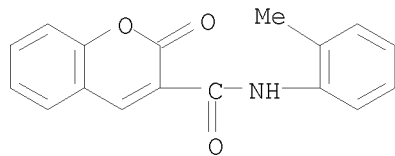
RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1846-98-6 CAPLUS

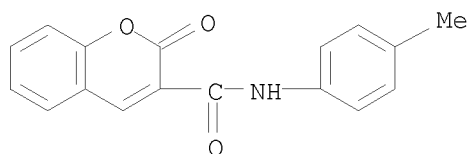
CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

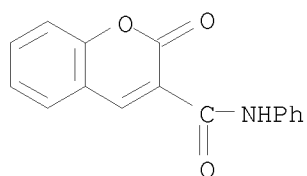
10/513699

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT:	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 33 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2006:710810 CAPLUS
 DOCUMENT NUMBER: 145:159773
 TITLE: Benzimidazole derivative transcription
 factor-modulating compounds for use as antiinfective
 agents
 INVENTOR(S): Alekshun, Michael N.; Amoo, Victor; Kim, Oak K.;
 Verma, Atul K.
 PATENT ASSIGNEE(S): Paratek Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 405 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006076009	A2	20060720	WO 2005-US14345	20050425
WO 2006076009	A3	20071227		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
AU 2005324492	A1	20060720	AU 2005-324492	20050425
CA 2562763	A1	20060720	CA 2005-2562763	20050425
US 20060160799	A1	20060720	US 2005-115024	20050425
EP 1742637	A2	20070117	EP 2005-856651	20050425
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU			
JP 2008504233	T	20080214	JP 2007-509742	20050425
PRIORITY APPLN. INFO.:			US 2004-565047P	P 20040423
			US 2004-569032P	P 20040507
			US 2004-623251P	P 20041028
			WO 2005-US14345	W 20050425

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 145:159773; MARPAT 145:159773

AB The invention provides substituted benzimidazole compds. useful as antiinfectives that decrease resistance, virulence, or growth of microbes. Also provided are methods for making and using the substituted benzimidazole compds., as well as pharmaceutical preps. for e.g. reducing antibiotic resistance and inhibiting biofilms.

IT 156172-93-9

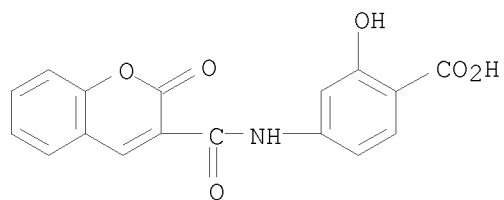
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(benzimidazole derivative transcription factor-modulating compds. for use as antiinfective agents)

RN 156172-93-9 CAPLUS

10/513699

CN Benzoic acid, 2-hydroxy-4-[[(2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]-
(CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

L4 ANSWER 34 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:274151 CAPLUS

DOCUMENT NUMBER: 144:464075

TITLE: Synthesis and in vitro selective anti-Helicobacter pylori activity of

AUTHOR(S): N-substituted-2-oxo-2H-1-benzopyran-3-carboxamides
Chimenti, Franco; Bizzarri, Bruna; Bolasco, Adriana;
Secci, Daniela; Chimenti, Paola; Carradori, Simone;
Granese, Arianna; Rivanera, Daniela; Lilli, Daniela;CORPORATE SOURCE: Scaltrito, M. Maddalena; Brenciaglia, M. Immacolata
Dipartimento di Studi di Chimica e Tecnologia delle
Sostanze Biologicamente Attive, Universita La
Sapienza, Rome, 00185, ItalySOURCE: European Journal of Medicinal Chemistry (2006), 41(2),
208-212

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:464075

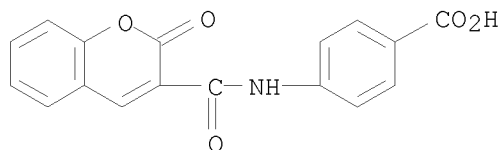
AB To develop new anti-Helicobacter pylori agents, five new and three already known N-substituted-2-oxo-2H-1-benzopyran-3-carboxamides (coumarin-3-carboxamides) were prepared and evaluated for their antibacterial activity. All synthesized compds. showed little or no activity against different species of Gram-pos. and Gram-neg. bacteria of clin. relevance and against various strains of pathogenic fungi. Among the prepared compds. those with a 4-acyl-Ph group showed the best activity against H. pylori metronidazole resistant strains in the 0.25-1 µg/mL MIC range, indicating the presence of an acyl function as an important feature for activity.

IT 1847-05-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(synthesis and anti-Helicobacter pylori activity of benzopyran carboxamides)

RN 1847-05-8 CAPLUS

CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

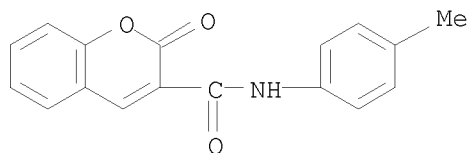
IT 1847-00-3P 111947-24-1P 886760-84-5P
886760-87-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and anti-Helicobacter pylori activity of benzopyran carboxamides)

RN 1847-00-3 CAPLUS

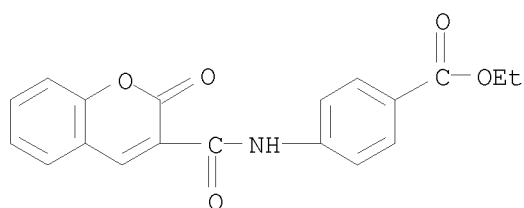
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



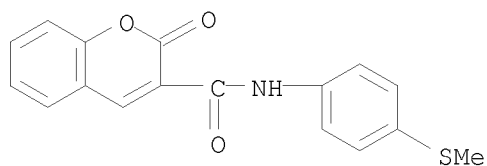
RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)



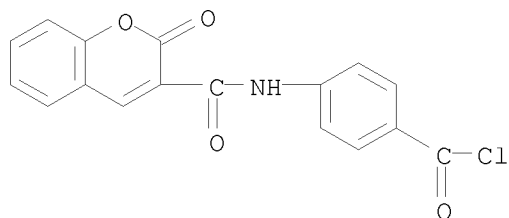
RN 886760-84-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(methylthio)phenyl]-2-oxo- (CA INDEX NAME)



RN 886760-87-8 CAPLUS

CN Benzoyl chloride, 4-[[2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 11

THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

REFERENCE COUNT: 34

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

<12/04/2007>

Erich Leese

10/513699

<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 35 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:52423 CAPLUS
DOCUMENT NUMBER: 144:121828
TITLE: Neuroprotective agents for the treatment of
neurodegenerative diseases
INVENTOR(S): Lin, Leu-Fen H.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 99 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060014807	A1	20060119	US 2004-894336	20040719
US 7671077	B2	20100302		
US 20090227790	A1	20090910	US 2009-384620	20090407
PRIORITY APPLN. INFO.:			US 2004-894336	A1 20040719

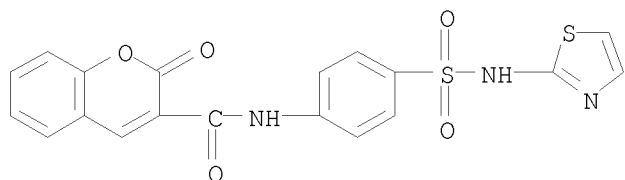
OTHER SOURCE(S): MARPAT 144:121828

AB The present application is directed to therapeutic compds., compns., and methods for culturing neuronal cells and for preventing and the treatment of neurodegenerative diseases, such as Parkinson's disease and amyotrophic lateral sclerosis (ALS).

IT 141502-02-5
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (neuroprotective agents for treatment of neurodegenerative diseases)

RN 141502-02-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

10/513699

L4 ANSWER 36 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1214763 CAPLUS

DOCUMENT NUMBER: 145:167119

TITLE: Unexpected synthesis of substituted
9b,9c-dihydro-5-oxa-2-azacyclopenta[2,3]cyclopropa[1,2-
a]naphthalene-1,3,4-triones according to a modified
Reformatskii reaction

AUTHOR(S): Shchepin, V. V.; Silaychev, P. S.; Stepanyan, Yu. G.

CORPORATE SOURCE: Perm State University, Perm, 614990, Russia

SOURCE: Chemistry of Heterocyclic Compounds (New York, NY,
United States) (2005), 41(6), 794-795

CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Springer Science+Business Media, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 145:167119

AB In attempting to obtain cyclopropanes, the zinc enolate of Me
4,4-dibromo-2,2-dimethyl-3-oxopentanoate was reacted with N-substituted
2-oxochromene-3-carboxamides. However, the reaction did not stop in the
cyclopropanation step but the title compds. are formed by an addnl.
intramol. cyclization.

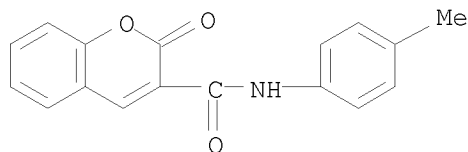
IT 1847-00-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of dihydrooxaazacyclopentacyclopropanaphthalenetriones by
modified Reformatskii reaction)

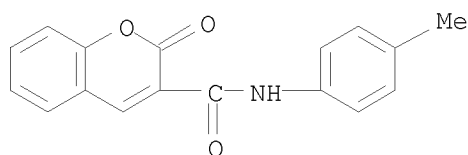
RN 1847-00-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 37 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2005:1181257 CAPLUS
 DOCUMENT NUMBER: 144:488488
 TITLE: Cyclopropanation of N-Substituted
 2-Oxochromene-3-carboxamides and
 3-Oxobenzo[f]chromene-2-carboxamides with
 Bromine-containing Zinc Enolate Prepared from
 α,α -Dibromopinacolin and Zinc
 AUTHOR(S): Shchepin, V. V.; Silaichev, P. S.; Vakhrin, M. I.;
 Russkikh, N. Yu.
 CORPORATE SOURCE: Perm State University, Perm, 614990, Russia
 SOURCE: Russian Journal of Organic Chemistry (2005), 41(8),
 1219-1221
 CODEN: RJOCEQ; ISSN: 1070-4280
 PUBLISHER: Pleiades Publishing, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 144:488488
 AB Zinc enolate obtained from 1,1-dibromo-3,3-dimethylbutan-2-one reacted
 with N-substituted 2-oxochromene-3-carboxamides and
 3-oxobenzo[f]chromene-2-carboxamides affording
 1-(2,2-dimethylpropanoyl)-2-oxo-1a,7b-dihydrocyclopropa[c]chromene-1a-
 carboxamides and 1-(2,2-dimethylpropanoyl)-2-oxo-1a,9C-
 dihydrobenzo[f]cyclopropa[c]chromene-1a-carboxamide as single isomers.
 IT 1847-00-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (stereoselective cyclopropanation of oxochromene- and
 oxobenzochromenecarboxamides with bromo zinc enolate from
 dibromopinacolin)
 RN 1847-00-3 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 38 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:549431 CAPLUS

DOCUMENT NUMBER: 144:311879

TITLE: Cyclopropanation of N-substituted 2-oxochromene- and

6-bromo-2-oxochromene-3-carboxamides with zinc

enolates derived from 1-aryl-2,2-dibromoalkanones

AUTHOR(S): Shchepin, V. V.; Silaichev, P. S.; Shchepin, R. V.;

Ezhikova, M. A.; Kodess, M. I.

CORPORATE SOURCE: Perm State University, Perm, 614990, Russia

SOURCE: Russian Journal of Organic Chemistry (2005), 41(4),
527-534

CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: Pleiades Publishing, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:311879

AB Zinc enolates derived from 1-aryl-2,2-dibromo-alkanones react with N-cyclohexyl-2-oxo-3-chromene carboxamides to give N-cyclohexyl-1-alkyl-1-aro-yl-2-oxo-1a,7b-dihydro-cyclopropa[c]chromene-1a-carboxamides mainly as cis isomers with respect to the substituents in positions 1 and 1a. Reactions of the same zinc enolates with N-benzyl-2-oxo-3-chromene carboxamide and N-benzyl-6-bromo-2-oxo-3-chromene carboxamide lead to formation of 1-aryl-2-benzyl- and 1-aryl-2-benzyl-6-bromo-1-hydroxy-9c-alkyl-1,2,9b,9c-tetrahydro-5-oxa-2-azacyclopenta[2,3]cyclopropa[1,2-a]naphthalene-3,4-dione derivs. The reaction of zinc enolates with N-aryl-2-oxo-3-chromene carboxamides in a weakly polar solvent (di-Et ether or Et acetate) affords mixts. of cis-N-aryl-1-aro-yl-1-alkyl-2-oxo-1a,7b-dihydro-cyclopropa[c]chromene-1a-carboxamides and their cyclic isomers, 9c-alkyl-1,2-diaryl-1-hydroxy-1,2,9b,9c-tetrahydro-5-oxa-2-azacyclopenta[2,3]cyclopropa[1,2-a]naphthalene-3,4-diones, the latter prevailing. N-Substituted 1-alkyl-1-aro-yl-2-oxo-1a,7b-dihydro-cyclopropa[c]chromene-1a-carboxamides in which the aro-yl group on C1 and the carboxamide group on C1a are arranged trans are formed by reactions of zinc enolates with the corresponding 2-oxochromene-3-carboxamides in the presence of hexamethylphosphoric triamide.

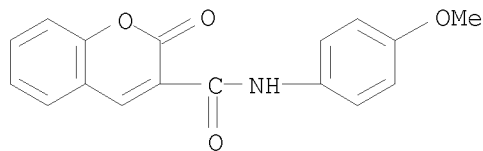
IT 1846-94-2 1847-00-3 54396-25-7
74555-99-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclopropanation of oxo-1-benzopyran-3-carboxamide derivs. with
dibromo(aryl)alkanone-derived zinc enolates)

RN 1846-94-2 CAPLUS

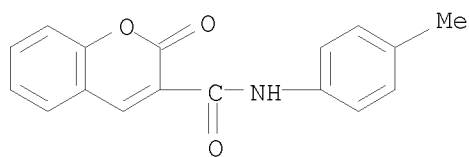
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

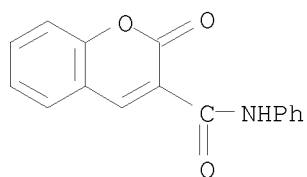
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



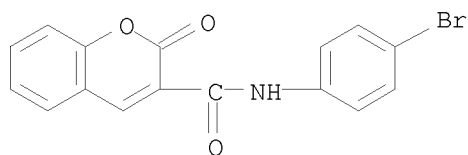
RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



RN 74555-99-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 39 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:497502 CAPLUS

DOCUMENT NUMBER: 143:53440

TITLE: Substituted benzoimidazole compounds as transcription factor-modulating compounds useful as anti-infectives

INVENTOR(S): Levy, Stuart B.; Alekshun, Michael N.; Podlogar, Brent L.; Ohemeng, Kwasi; Verma, Atul K.; Warchol, Tadeusz; Bhatia, Beena; Bowser, Todd; Grier, Mark

PATENT ASSIGNEE(S): Paratek Pharmaceuticals, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 463 pp., Cont.-in-part of U.S. Ser. No. 139,591.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050124678	A1	20050609	US 2003-700661	20031103
US 7405235	B2	20080729		
CA 2445515	A1	20021104	CA 2002-2445515	20020506
AU 2002367953	A1	20040106	AU 2002-367953	20020506
AU 2002367953	B2	20080717		
EP 1524974	A2	20050427	EP 2002-807554	20020506
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005519998	T	20050707	JP 2004-515557	20020506
US 20030229065	A1	20031211	US 2002-139591	20020814
US 20040106553	A1	20040603	US 2003-602562	20030624
US 20090131401	A1	20090521	US 2008-69723	20080212
AU 2008203017	A1	20080731	AU 2008-203017	20080708
PRIORITY APPLN. INFO.:				
			US 2001-288660P	P 20010504
			US 2002-139591	A2 20020814
			US 2002-423319P	P 20021101
			US 2002-425916P	P 20021113
			AU 2002-367953	A3 20020506
			WO 2002-US14255	W 20020506
			US 2002-391345P	P 20020624
			US 2002-421218P	P 20021025
			US 2002-429142P	P 20021126
			US 2003-458935P	P 20030331
			US 2003-700661	A3 20031103

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:53440

AB Substituted benzoimidazole compds. useful as anti-infectives that decrease resistance, virulence, or growth of microbes are provided. Methods of making and using substituted benzoimidazole compds., as well as pharmaceutical preps. thereof, in, e.g., reducing antibiotic resistance and inhibiting biofilms. The present invention identifies microbial transcription factors, especially transcription factors of the AraC-XylS family, as virulence factors in microbes and shows that inhibition of these factors reduces the virulence of microbial cells. Because these transcription factors control virulence, rather than essential cellular processes, the development of resistance is much less likely.

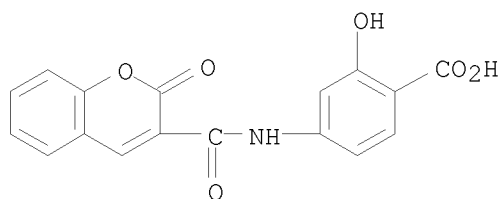
IT 156172-93-9

10/513699

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(substituted benzoimidazole compds. as transcription factor-modulating
compds. useful as anti-infectives)

RN 156172-93-9 CAPLUS

CN Benzoic acid, 2-hydroxy-4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-
(CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

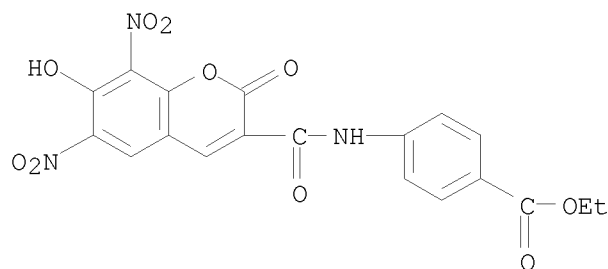
L4 ANSWER 40 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:359073 CAPLUS
DOCUMENT NUMBER: 142:475383
TITLE: Drug screening for influenza neuraminidase inhibitors
AUTHOR(S): Liu, Ailin; Cao, Hongpeng; Du, Guanhua
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of
Medical Sciences and Peking Union Medical College,
Beijing, 100050, Peop. Rep. China
SOURCE: Science in China, Series C: Life Sciences (2005),
48(1), 1-5
CODEN: SCCLFO; ISSN: 1006-9305
PUBLISHER: Science in China Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Neuraminidase (NA) is one of the most important targets to screen the
drugs of anti-influenza virus A and B. After virtual screening approaches
were applied to a compound database which possesses more than 10000 compound
structures, 160 compds. were selected for bioactivity assay, then a High
Throughput Screening (HTS) model established for influenza virus NA
inhibitors was applied to detect these compds. Finally, three compds.
among them displayed higher inhibitory activities, the range of their IC50
was from 0.1 $\mu\text{mol/L}$ to 3 $\mu\text{mol/L}$. Their structural scaffolds are
novel and different from those of NA inhibitors approved for influenza
treatment, and will be useful for the design and research of new NA
inhibitors. The result indicated that the combination of virtual
screening with HTS was very significant to drug screening and drug
discovery.

IT 704881-73-2
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(drug screening for influenza neuraminidase inhibitors)

RN 704881-73-2 CAPLUS

CN Benzoic acid, 4-[[7-hydroxy-6,8-dinitro-2-oxo-2H-1-benzopyran-3-
yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(7 CITINGS)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 41 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:288964 CAPLUS

DOCUMENT NUMBER: 143:321

TITLE: Novel coumarin-3-(N-aryl)carboxamides arrest breast cancer cell growth by inhibiting ErbB-2 and ERK1

AUTHOR(S): Reddy, Natala Srinivasa; Gumireddy, Kiranmai; Mallireddigari, Muralidhar R.; Cosenza, Stephen C.; Venkatapuram, Padmavathi; Bell, Stanley C.; Reddy, E. Premkumar; Reddy, M. V. Ramana

CORPORATE SOURCE: Fels Institute for Cancer Research, Temple University School of Medicine, Philadelphia, PA, 19140-5101, USA

SOURCE: Bioorganic & Medicinal Chemistry (2005), 13(9), 3141-3147

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:321

AB A series of novel coumarin carboxamides were synthesized, and their tumor cell cytotoxic activity was investigated. These compds. specifically inhibited the growth of cancer cells that have a high level of ErbB-2 expression. Immunopptn. anal. of the cell lysates prepared from carboxamide treated cancer cells showed the inhibition of ErbB-2 phosphorylation suggesting the interaction of these compds. with ErbB-2 receptor. The down regulation of the kinase activity was further confirmed by performing in vitro kinase assay with recombinant ErbB-2 incubated with carboxamides. The inhibition of ErbB-2 phosphorylation correlated with down-regulation of ERK1 MAP kinase activation that is involved in proliferative signaling pathway. Furthermore, the cell-killing activity of many of these inhibitors is restricted to tumor cells with no demonstrable cytotoxicity against normal human fibroblasts suggesting that these compds. are tumor-specific.

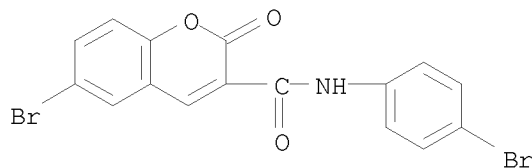
IT 301818-11-1P 302815-57-2P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(coumarin-3-(N-aryl)carboxamides arrest breast cancer cell growth by inhibiting ErbB-2 and ERK1)

RN 301818-11-1 CAPLUS

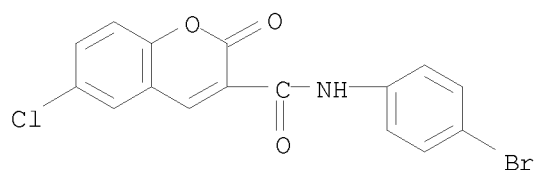
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



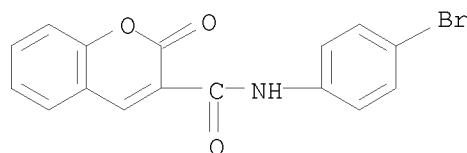
RN 302815-57-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-6-chloro-2-oxo- (CA INDEX NAME)

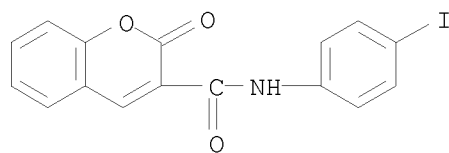
10/513699



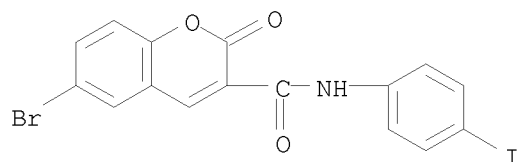
IT 74555-99-0P 92792-09-1P 301818-14-4P
302815-44-7P 852312-53-9P 852312-56-2P
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); SPN
(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
PREP (Preparation); USES (Uses)
(coumarin-3-(N-aryl)carboxamides arrest breast cancer cell growth by
inhibiting ErbB-2 and ERK1)
RN 74555-99-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



RN 92792-09-1 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-iodophenyl)-2-oxo- (CA INDEX NAME)

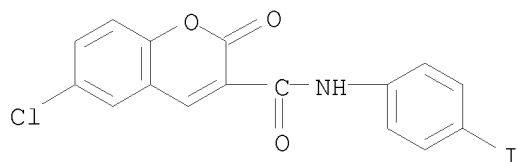


RN 301818-14-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-iodophenyl)-2-oxo- (CA INDEX NAME)



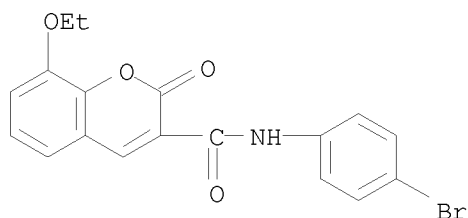
RN 302815-44-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-iodophenyl)-2-oxo- (CA INDEX NAME)

10/513699



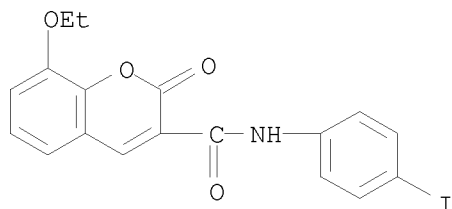
RN 852312-53-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-8-ethoxy-2-oxo- (CA INDEX NAME)



RN 852312-56-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-ethoxy-N-(4-iodophenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 11

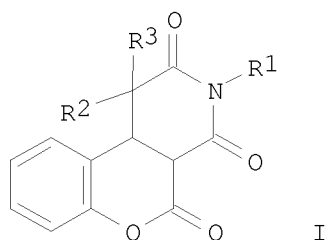
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REFERENCE COUNT: 22

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

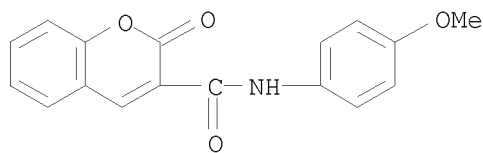
L4 ANSWER 42 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:15236 CAPLUS
DOCUMENT NUMBER: 143:133298
TITLE: Synthesis of 3-R¹-1-R²-1-R³-4a,10b-dihydro-1H-chromeno[3,4-c]pyridine-2,4,5-triones by the Reformatskii reaction
AUTHOR(S): Shchepin, V. V.; Fotin, D. V.; Vakhrin, M. I.; Shurov, S. N.
CORPORATE SOURCE: Perm State University, Perm, Russia
SOURCE: Russian Journal of General Chemistry (Translation of Zhurnal Obshchei Khimii) (2004), 74(9), 1406-1409
CODEN: RJGCEK; ISSN: 1070-3632
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:133298
GI



AB The Reformatskii reagents formed from alkyl esters of α -bromoacetic, α -bromopropanoic, and α -bromoisobutyric acids and zinc react with N-arylamides of 2-oxochromene-3-carboxylic acid, yielding dihydro-1H-chromeno[3,4-c]pyridine-2,4,5-triones I (R¹ = 4-MeC₆H₄, 4-BrC₆H₄, 4-MeOC₆H₄; R² = H, Me; R³ = H, Me, Et).

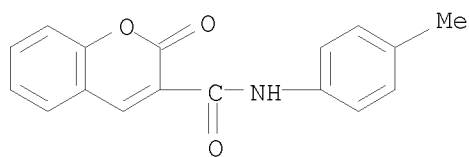
IT 1846-94-2 1847-00-3 74555-99-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of dihydrochromenopyridinetriones by Reformatskii reaction of oxochromene carboxylic arylamide with bromoacetic alkyl esters)

RN 1846-94-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



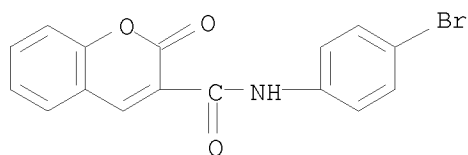
RN 1847-00-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



RN 74555-99-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 43 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:839059 CAPLUS

DOCUMENT NUMBER: 142:316721

TITLE: Reformatsky reaction with N-substituted

6-bromo-2-oxochromene-3-carboxamides

AUTHOR(S): Shchepin, V. V.; Fotin, D. V.; Fotin, V. V.; Vakhrin, M. I.

CORPORATE SOURCE: Perm State University, Perm, 614990, Russia

SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2004), 40(6), 892-894
CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:316721

AB Reformatsky reactions of Et α -bromopropionate, Me α -bromobutyrate, and Me α -bromoisobutyrate with N-substituted 6-bromo-2-oxochromene-3-carboxamides in the system di-Et ether-benzene-HMPA give N-benzyl-6-bromo-4-(1-alkoxycarbonylalkyl)-2-oxochroman-3-carboxamides, while in the system di-Et ether-benzene-HMPA-THF, 3-R1-1-R2-1-R3-9-bromo-2,3,4,4a,5,10b-hexahydro-1H-chromeno[3,4-c]-pyridine-2,4,5-triones are obtained.

IT 38485-85-7 38485-93-7

RL: RCT (Reactant); RACT (Reactant or reagent)

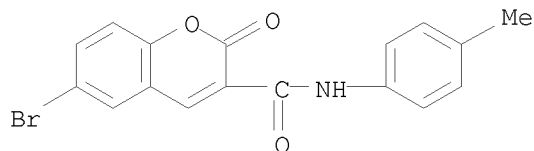
(Reformatsky reaction of carboxylates with N-substituted

6-bromo-2-oxochromene-3-carboxamides for preparation of

N-benzyl-6-bromo-4-(1-alkoxycarbonylalkyl)-2-oxochroman-3-carboxamides)

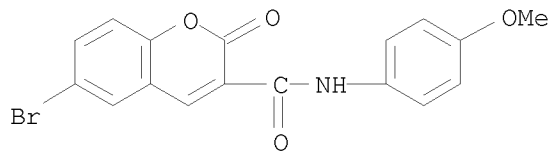
RN 38485-85-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-93-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 44 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:490719 CAPLUS

DOCUMENT NUMBER: 141:38530

TITLE: Preparation of coumarincarboxamides as TGF- β inhibitors

INVENTOR(S): Xu, Shiping; Chen, Xiaoguang; Xu, Song; Li, Lanmin; Xie, Longfei; Li, Hongyan; Li, Yan; Cheng, Guifang

PATENT ASSIGNEE(S): Institute of Materia Medica, Chinese Academy of Medical Sciences, Peop. Rep. China

SOURCE: PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

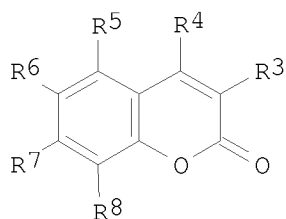
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004050082	A1	20040617	WO 2003-CN1046	20031205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1506359	A	20040623	CN 2002-155525	20021205
CA 2508573	A1	20040617	CA 2003-2508573	20031205
AU 2003289641	A1	20040623	AU 2003-289641	20031205
EP 1570846	A1	20050907	EP 2003-776786	20031205
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BR 2003016595	A	20051004	BR 2003-16595	20031205
JP 2006512328	T	20060413	JP 2004-555972	20031205
CN 1829506	A	20060906	CN 2003-80109516	20031205
CN 100488504	C	20090520		
RU 2361870	C2	20090720	RU 2005-121137	20031205
IN 2005DN02384	A	20090327	IN 2005-DN2384	20050603
US 20060148834	A1	20060706	US 2005-537711	20051128
PRIORITY APPLN. INFO.:			CN 2002-155525	A 20021205
			WO 2003-CN1046	W 20031205

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 141:38530

GI



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AB Title compds. I [R3 = H, carboxy, ethoxycarbonyl, CONH(CH₂)₃CO₂H, 5-phenyloxadiazol-2-yl, CONHR₂, etc.; R2 = carboxylic acid, benzoylamino, nicotinoylamino, Ph, substituted Ph., etc.; R4 = H, CONHR₁; R1 = carboxylic acid, benzoylamino, isonicotinoylamino, Ph, substituted Ph, etc.; R5 = H, alkyl; R6 = H, alkyl, halo, NO₂, etc.; R7 = H, OH, alkyl, alkoxy, carboxyalkoxy, etc.; R8 = H, alkyl, alkoxy, NO₂], useful as TGF- β inhibitors, are prepared Thus, 3-carboxy-6-ethyl-7-methoxycoumarin was chlorinated with SOCl₂ followed by reaction with 4-aminosalicylic acid in pyridine gave 3-(3-hydroxy-4-carboxyphenylaminocarbonyl)-6-ethyl-7-methoxycoumarin. The invention also discloses the drug composition comprising said compds. and the derivs., and the use for especially kidney protection, treatment for hypertension, cerebrovascular and cardiovascular diseases, diabetes II, tumor, precancerous lesion and dropsy.

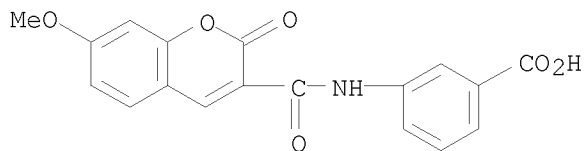
IT	312734-32-0P	704879-98-1P	704879-99-2P
	704880-02-4P	704880-03-5P	704880-05-7P
	704880-06-8P	704880-08-0P	704880-14-8P
	704880-15-9P	704880-18-2P	704880-19-3P
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	704880-42-2P	704880-48-8P	704880-59-1P
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	704880-76-2P	704880-80-8P	704880-81-9P
	704880-84-2P	704880-85-3P	704880-86-4P
	704880-89-7P	704880-97-7P	704881-43-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of coumarincarboxamides as TGF- β inhibitors)

RN 312734-32-0 CAPLUS

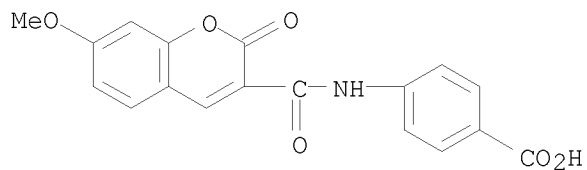
CN Benzoic acid, 3-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704879-98-1 CAPLUS

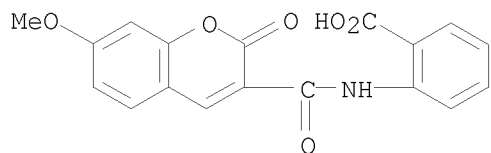
CN Benzoic acid, 4-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



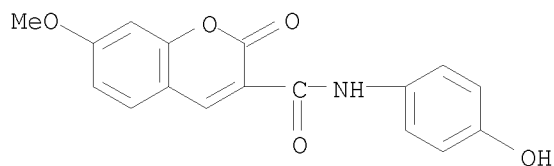
RN 704879-99-2 CAPLUS

CN Benzoic acid, 2-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]-
(CA INDEX NAME)



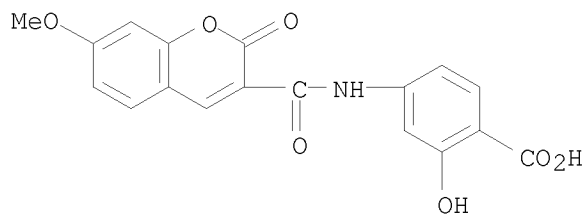
RN 704880-02-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-7-methoxy-2-oxo- (CA
INDEX NAME)



RN 704880-03-5 CAPLUS

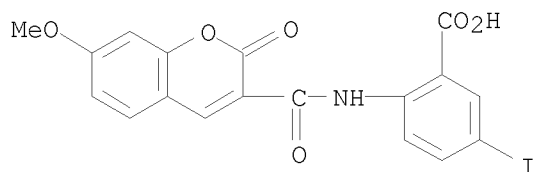
CN Benzoic acid, 2-hydroxy-4-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]- (CA INDEX NAME)



RN 704880-05-7 CAPLUS

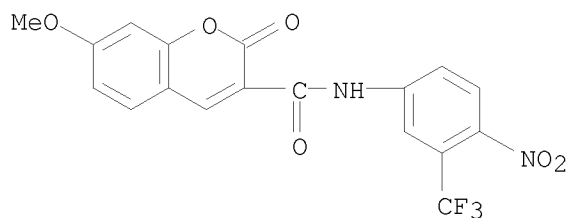
CN Benzoic acid, 5-iodo-2-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]- (CA INDEX NAME)

10/513699



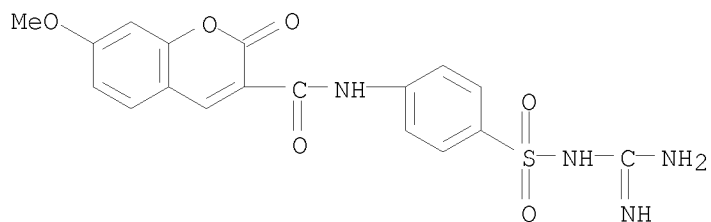
RN 704880-06-8 CAPLUS

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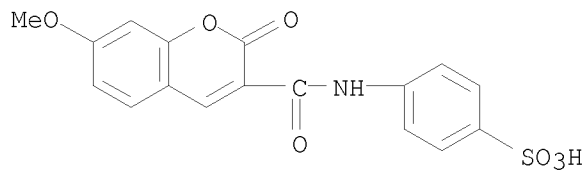
RN 704880-08-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl) amino]sulfonyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 704880-14-8 CAPLUS

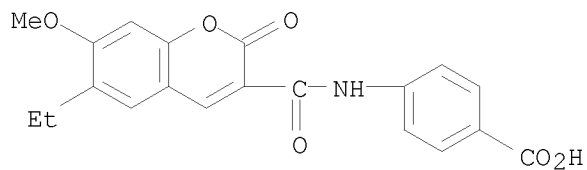
CN Benzenesulfonic acid, 4-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-15-9 CAPLUS

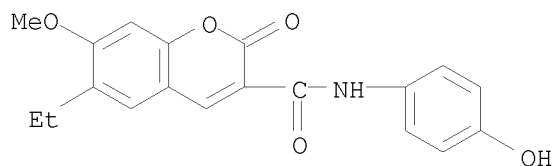
CN Benzoic acid, 4-[[(6-ethyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



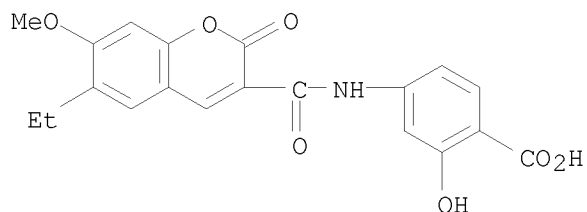
RN 704880-18-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-N-(4-hydroxyphenyl)-7-methoxy-2-oxo-
(CA INDEX NAME)



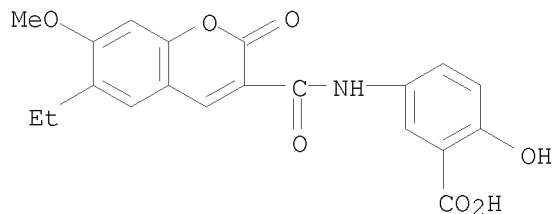
RN 704880-19-3 CAPLUS

CN Benzoic acid, 4-[[[(6-ethyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704880-20-6 CAPLUS

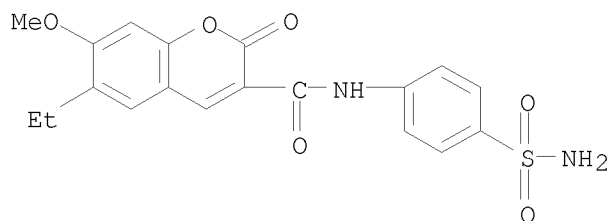
CN Benzoic acid, 5-[[[(6-ethyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704880-24-0 CAPLUS

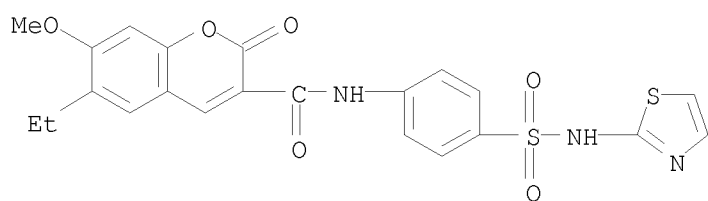
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-6-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699



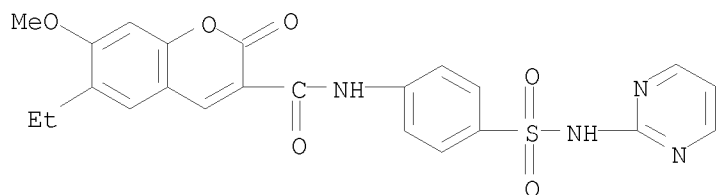
RN 704880-26-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



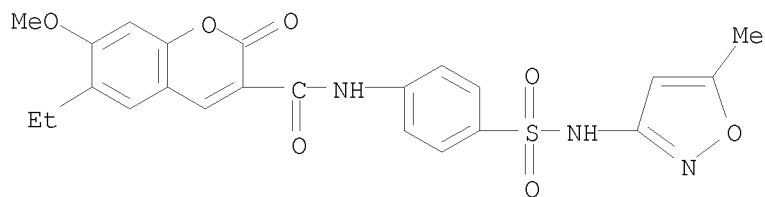
RN 704880-27-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 704880-30-8 CAPLUS

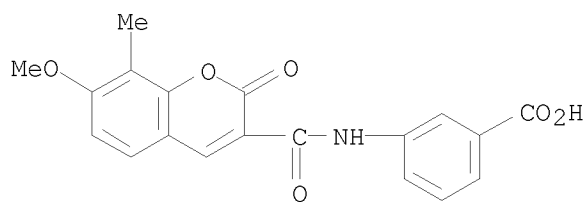
CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-N-[4-[(5-methyl-3-isoxazolyl)amino)sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 704880-34-2 CAPLUS

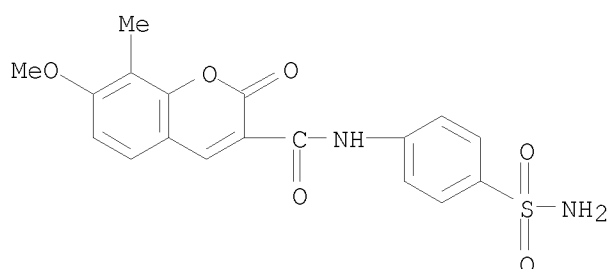
CN Benzoic acid, 3-[[[7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



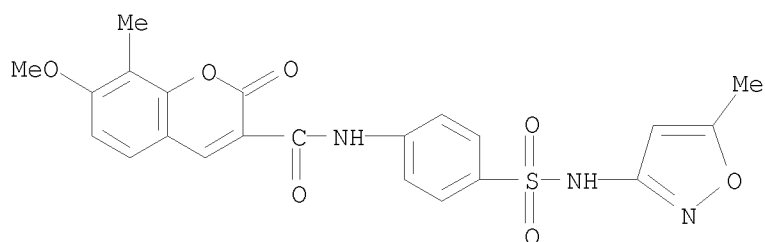
RN 704880-42-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-7-methoxy-8-methyl-2-oxo- (CA INDEX NAME)



RN 704880-48-8 CAPLUS

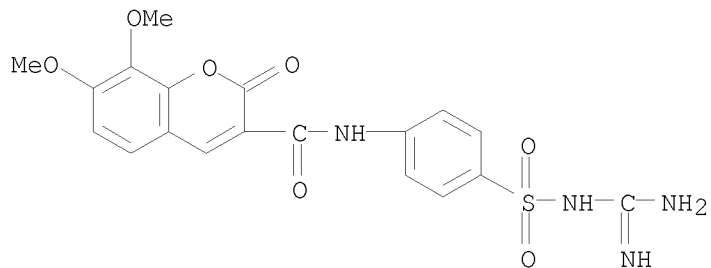
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-N-[4-[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 704880-59-1 CAPLUS

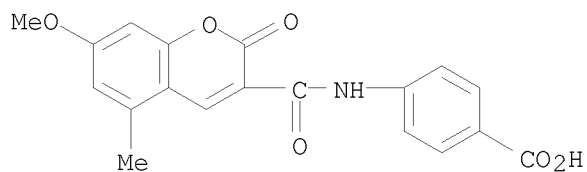
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl)amino]sulfonyl]phenyl]-7,8-dimethoxy-2-oxo- (CA INDEX NAME)

10/513699



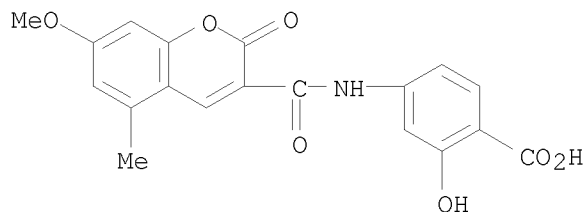
RN 704880-60-4 CAPLUS

CN Benzoic acid, 4-[[[(7-methoxy-5-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



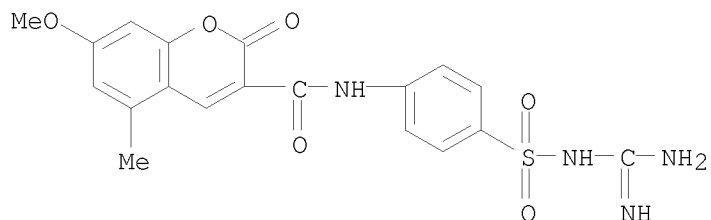
RN 704880-66-0 CAPLUS

CN Benzoic acid, 2-hydroxy-4-[[[(7-methoxy-5-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-72-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[[(aminoiminomethyl)amino]sulfonyl]phenyl]-7-methoxy-5-methyl-2-oxo- (CA INDEX NAME)

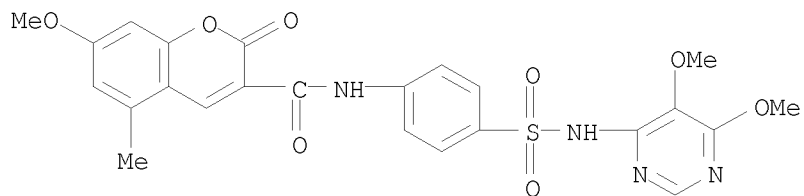


RN 704880-76-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[[(5,6-dimethoxy-4-

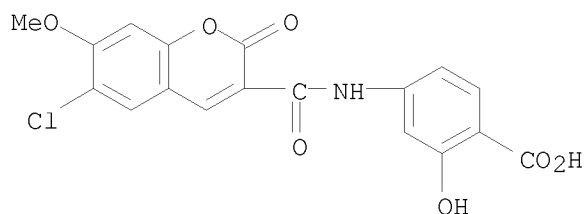
10/513699

pyrimidinyl)amino]sulfonyl]phenyl]-7-methoxy-5-methyl-2-oxo- (CA INDEX NAME)



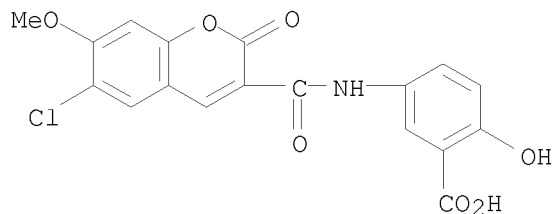
RN 704880-80-8 CAPLUS

CN Benzoic acid, 4-[[[(6-chloro-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



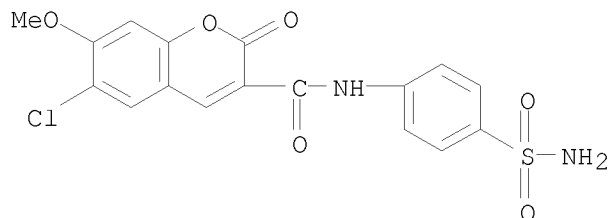
RN 704880-81-9 CAPLUS

CN Benzoic acid, 5-[[[(6-chloro-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704880-84-2 CAPLUS

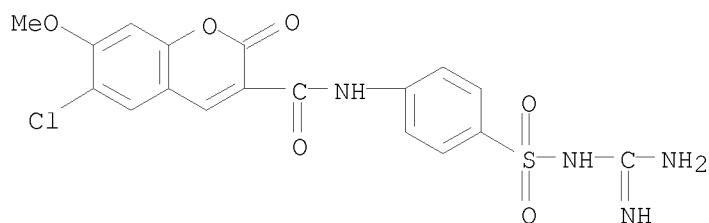
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-6-chloro-7-methoxy-2-oxo- (CA INDEX NAME)



10/513699

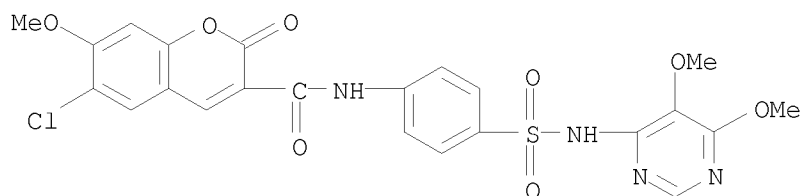
RN 704880-85-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-
[[(aminoiminomethyl) amino]sulfonyl]phenyl]-6-chloro-7-methoxy-2-oxo- (CA
INDEX NAME)



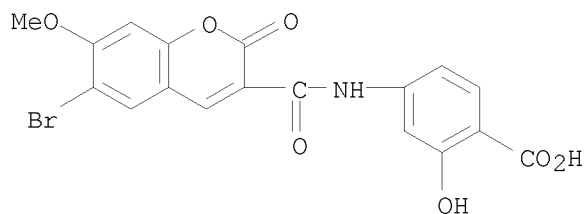
RN 704880-86-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-[4-[[(5,6-dimethoxy-4-
pyrimidinyl) amino]sulfonyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



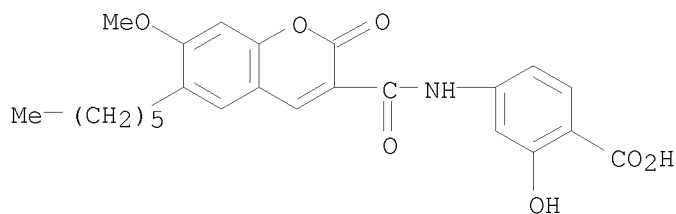
RN 704880-89-7 CAPLUS

CN Benzoic acid, 4-[[(6-bromo-7-methoxy-2-oxo-2H-1-benzopyran-3-
yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704880-97-7 CAPLUS

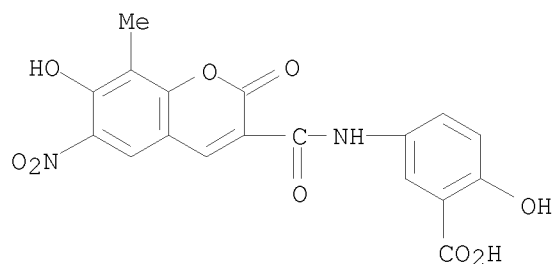
CN Benzoic acid, 4-[[(6-hexyl-7-methoxy-2-oxo-2H-1-benzopyran-3-
yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



10/513699

RN 704881-43-6 CAPLUS

CN Benzoic acid, 2-hydroxy-5-[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



IT	313669-68-0P	622819-95-8P	622820-99-9P
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	704880-07-9P	704880-09-1P	704880-10-4P
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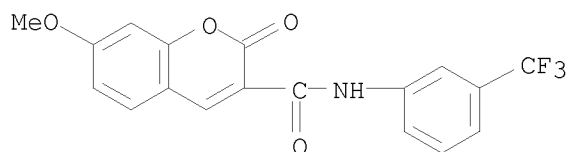
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RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of coumarincarboxamides as TGF- β inhibitors)

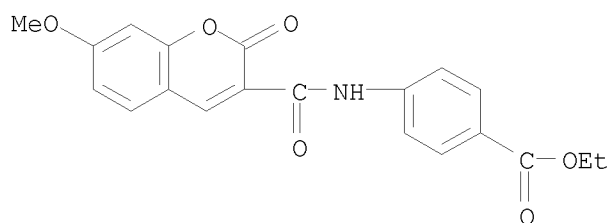
RN 313669-68-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 622819-95-8 CAPLUS

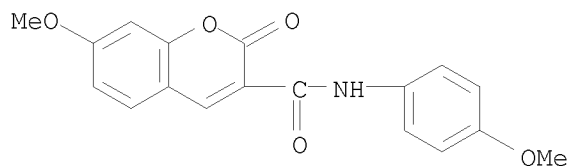
CN Benzoic acid, 4-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]-, ethyl ester (CA INDEX NAME)



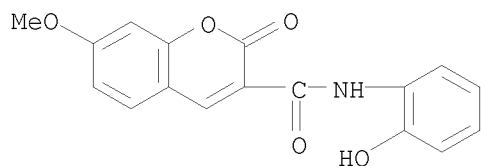
RN 622820-99-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)

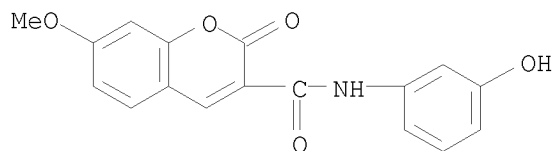
10/513699



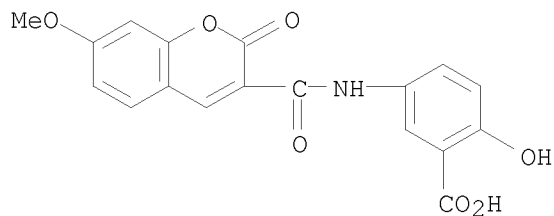
RN 704880-00-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2-hydroxyphenyl)-7-methoxy-2-oxo- (CA INDEX NAME)



RN 704880-01-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3-hydroxyphenyl)-7-methoxy-2-oxo- (CA INDEX NAME)

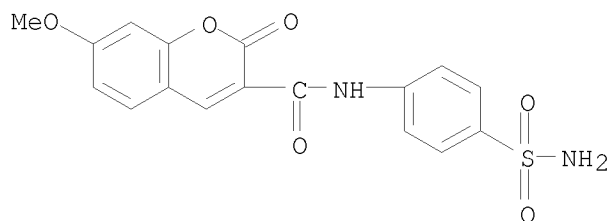


RN 704880-04-6 CAPLUS
CN Benzoic acid, 2-hydroxy-5-[[(7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



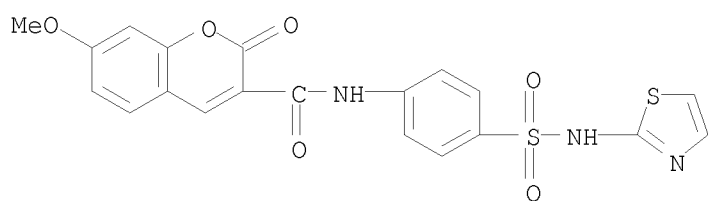
RN 704880-07-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699



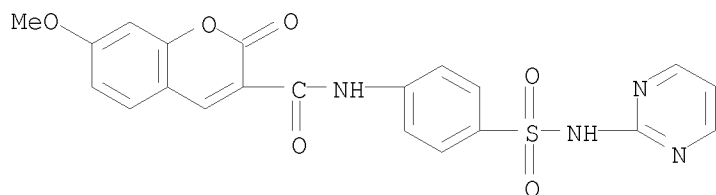
RN 704880-09-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



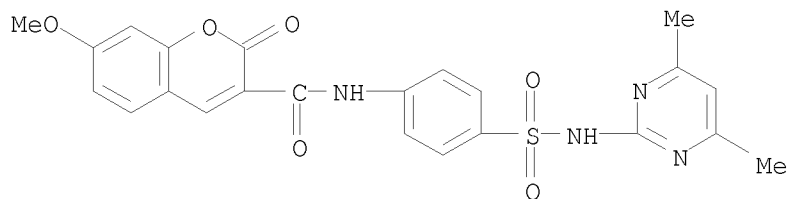
RN 704880-10-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 704880-11-5 CAPLUS

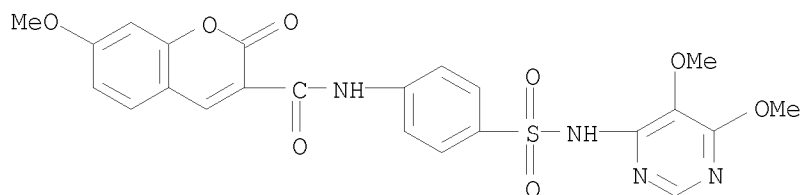
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4,6-dimethyl-2-pyrimidinyl]amino]sulfonyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)



RN 704880-12-6 CAPLUS

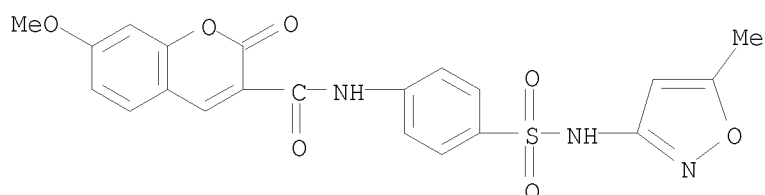
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[5,6-dimethoxy-4-pyrimidinyl]amino]sulfonyl]phenyl]-7-methoxy-2-oxo- (CA INDEX NAME)

10/513699



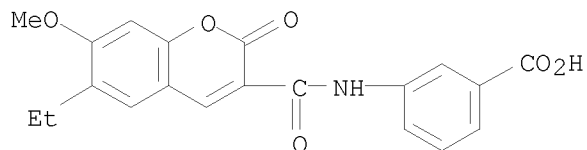
RN 704880-13-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-[4-[[5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



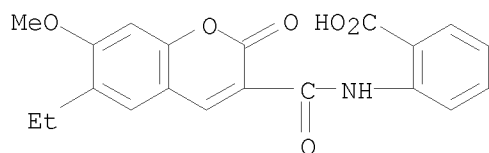
RN 704880-16-0 CAPLUS

CN Benzoic acid, 3-[[6-ethyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-17-1 CAPLUS

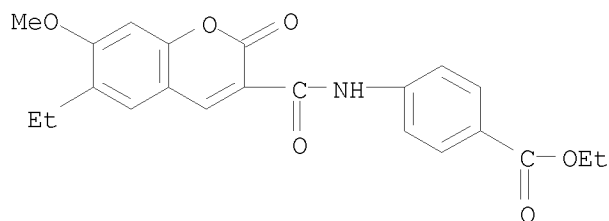
CN Benzoic acid, 2-[[6-ethyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-21-7 CAPLUS

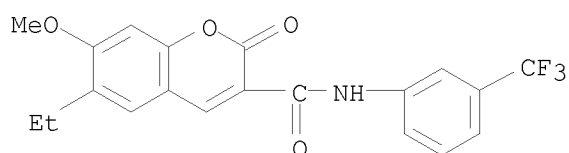
CN Benzoic acid, 4-[[6-ethyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

10/513699



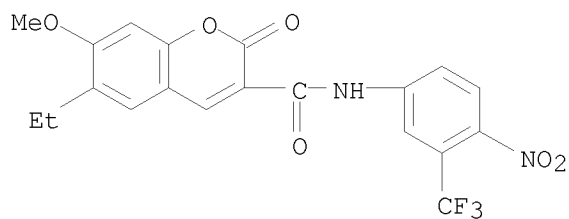
RN 704880-22-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



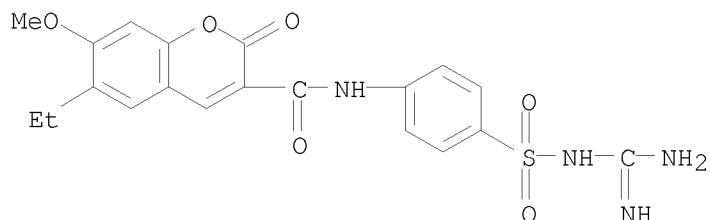
RN 704880-23-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-N-[4-nitro-3-(trifluoromethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 704880-25-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[[(aminoiminomethyl)amino]sulfonyl]phenyl]-6-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

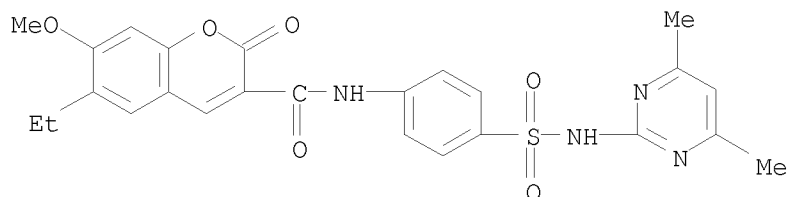


RN 704880-28-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[[(4,6-dimethyl-2-pyrimidinyl)amino]sulfonyl]phenyl]-6-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)

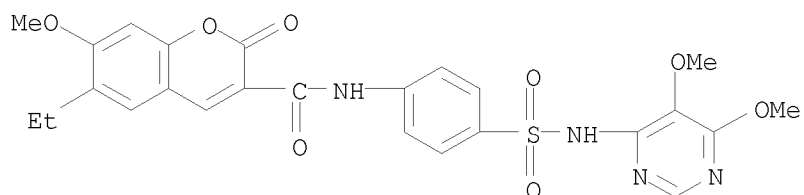
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NAME)



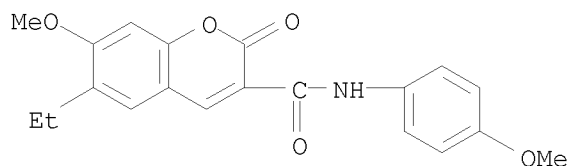
RN 704880-29-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[5,6-dimethoxy-4-pyrimidinyl]amino]sulfonyl]phenyl]-6-ethyl-7-methoxy-2-oxo- (CA INDEX NAME)



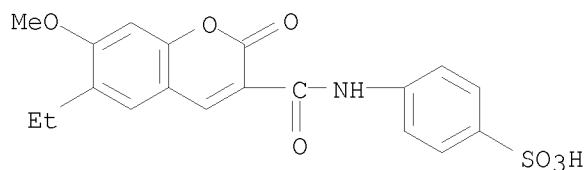
RN 704880-31-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 704880-32-0 CAPLUS

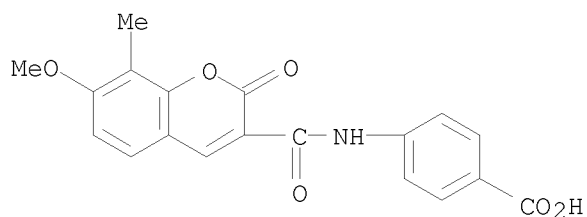
CN Benzenesulfonic acid, 4-[[6-ethyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino- (CA INDEX NAME)



RN 704880-33-1 CAPLUS

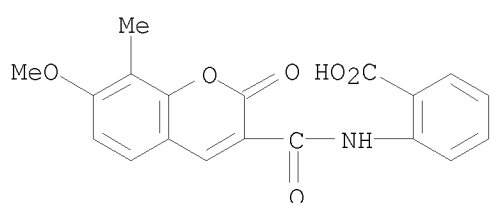
CN Benzoic acid, 4-[[7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino- (CA INDEX NAME)

10/513699



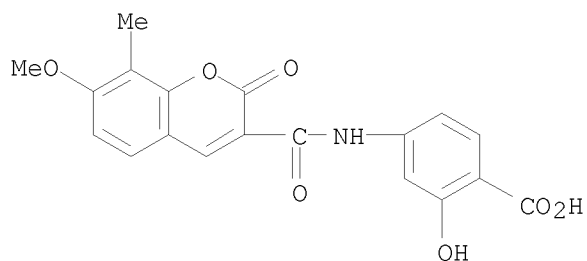
RN 704880-35-3 CAPLUS

CN Benzoic acid, 2-[[[(7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



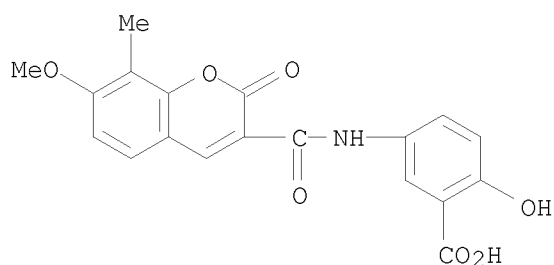
RN 704880-36-4 CAPLUS

CN Benzoic acid, 2-hydroxy-4-[[[(7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-37-5 CAPLUS

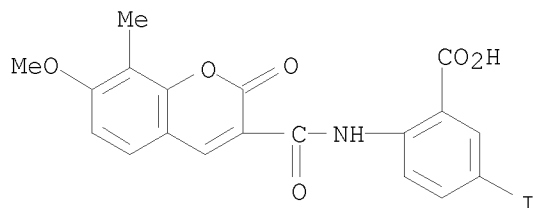
CN Benzoic acid, 2-hydroxy-5-[[[(7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



10/513699

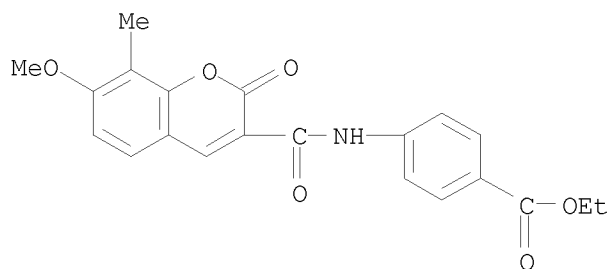
RN 704880-38-6 CAPLUS

CN Benzoic acid, 5-iodo-2-[[(7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



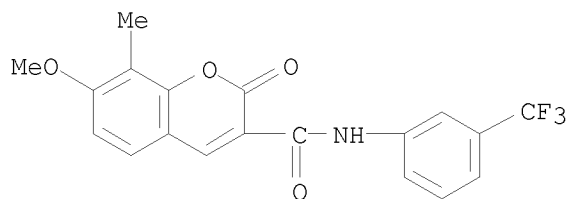
RN 704880-39-7 CAPLUS

CN Benzoic acid, 4-[[(7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 704880-40-0 CAPLUS

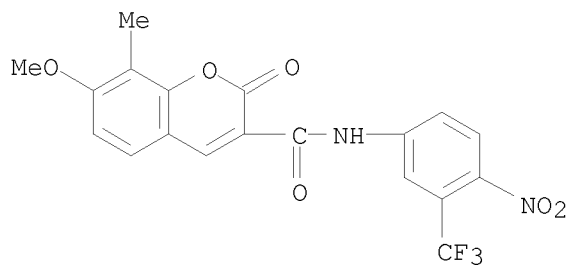
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



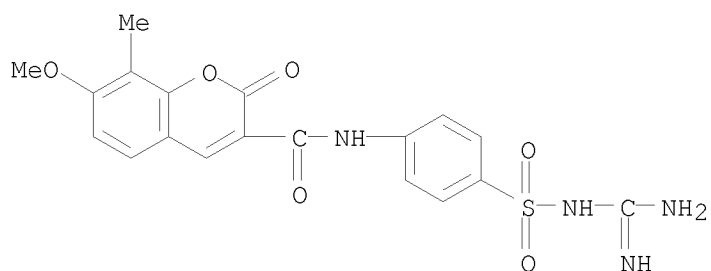
RN 704880-41-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-N-[4-nitro-3-(trifluoromethyl)phenyl]-2-oxo- (CA INDEX NAME)

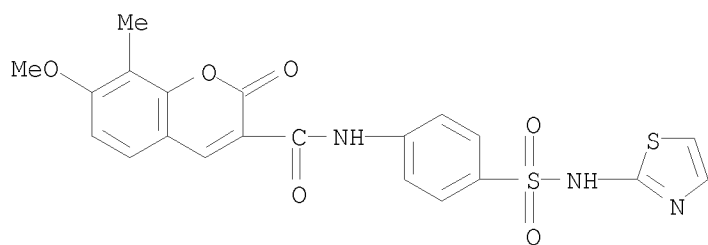
10/513699



RN 704880-43-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-
[[(aminoiminomethyl) amino]sulfonyl]phenyl]-7-methoxy-8-methyl-2-oxo- (CA
INDEX NAME)

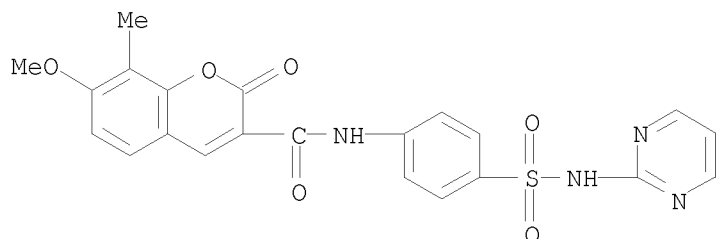


RN 704880-44-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-2-oxo-N-[4-[(2-
thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)

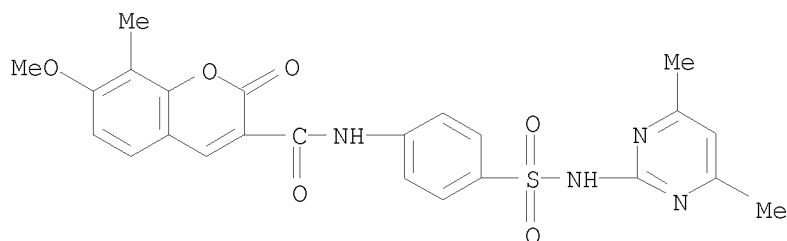


RN 704880-45-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-2-oxo-N-[4-[(2-
pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)

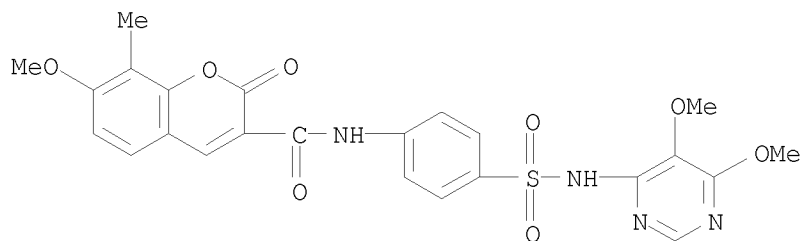
10/513699



RN 704880-46-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4,6-dimethyl-2-pyrimidinyl]amino]sulfonyl]phenyl]-7-methoxy-8-methyl-2-oxo- (CA INDEX NAME)

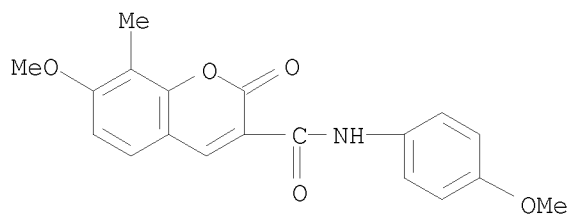


RN 704880-47-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[5,6-dimethoxy-4-pyrimidinyl]amino]sulfonyl]phenyl]-7-methoxy-8-methyl-2-oxo- (CA INDEX NAME)



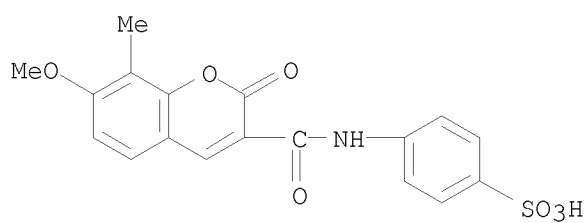
RN 704880-49-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-(4-methoxyphenyl)-8-methyl-2-oxo- (CA INDEX NAME)

10/513699



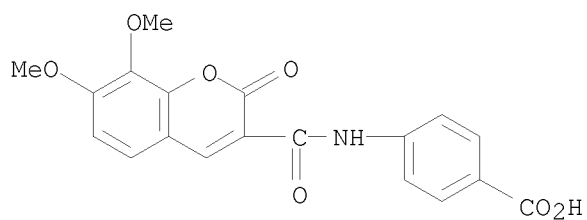
RN 704880-50-2 CAPLUS

CN Benzenesulfonic acid, 4-[[[(7-methoxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



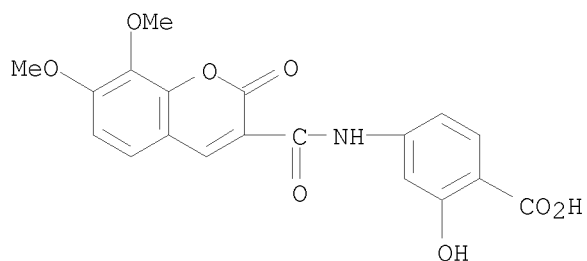
RN 704880-51-3 CAPLUS

CN Benzoic acid, 4-[[[(7,8-dimethoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-52-4 CAPLUS

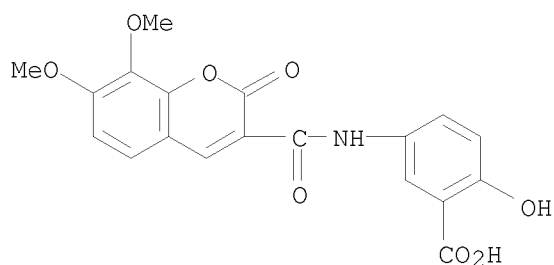
CN Benzoic acid, 4-[[[(7,8-dimethoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



10/513699

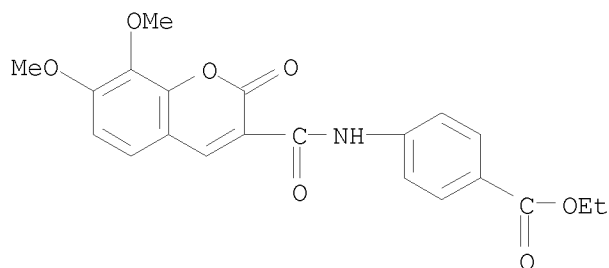
RN 704880-53-5 CAPLUS

CN Benzoic acid, 5-[[(7,8-dimethoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



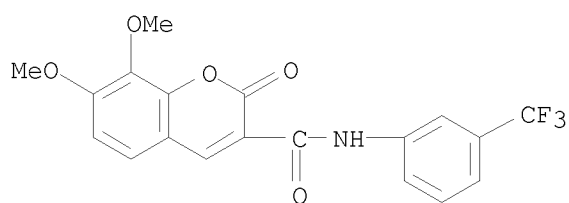
RN 704880-54-6 CAPLUS

CN Benzoic acid, 4-[[(7,8-dimethoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 704880-55-7 CAPLUS

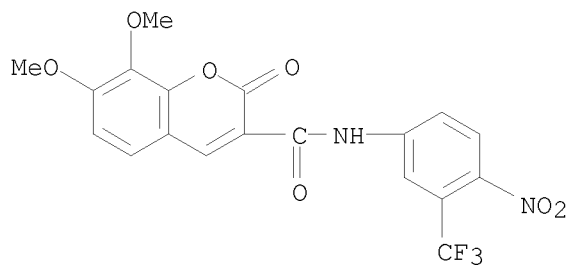
CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



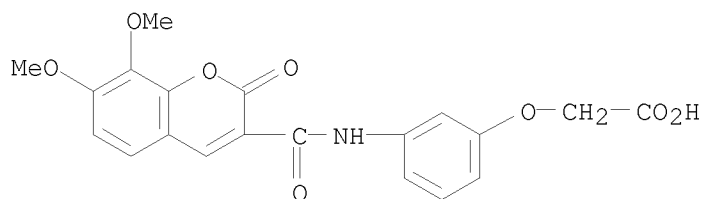
RN 704880-56-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-N-[4-nitro-3-(trifluoromethyl)phenyl]-2-oxo- (CA INDEX NAME)

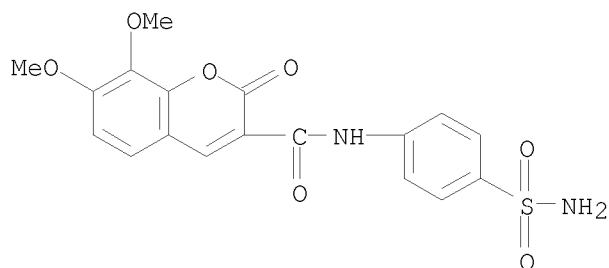
10/513699



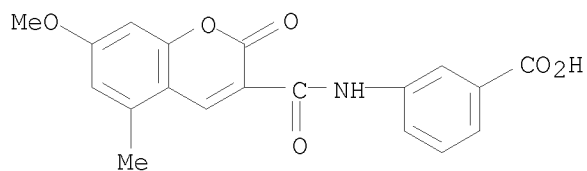
RN 704880-57-9 CAPLUS
CN Acetic acid, 2-[3-[[[(7,8-dimethoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenoxy]-4-(trifluoromethyl)phenoxy]- (CA INDEX NAME)



RN 704880-58-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-7,8-dimethoxy-2-oxo- (CA INDEX NAME)



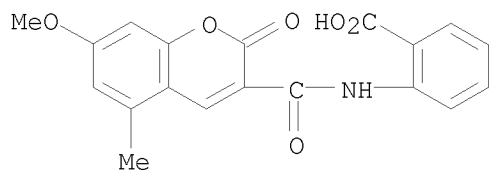
RN 704880-61-5 CAPLUS
CN Benzoic acid, 3-[[[(7-methoxy-5-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-62-6 CAPLUS
CN Benzoic acid, 2-[[[(7-methoxy-5-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

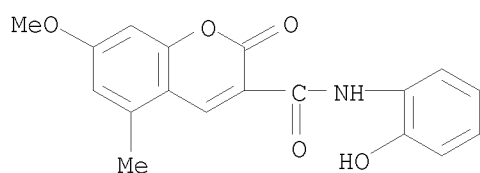
10/513699

yl)carbonyl]amino]- (CA INDEX NAME)



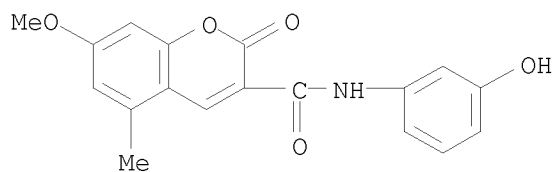
RN 704880-63-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(2-hydroxyphenyl)-7-methoxy-5-methyl-2-oxo- (CA INDEX NAME)



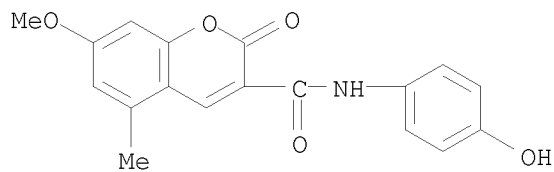
RN 704880-64-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3-hydroxyphenyl)-7-methoxy-5-methyl-2-oxo- (CA INDEX NAME)



RN 704880-65-9 CAPLUS

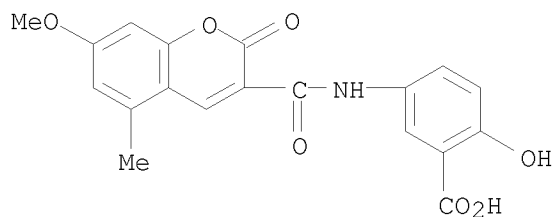
CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-7-methoxy-5-methyl-2-oxo- (CA INDEX NAME)



RN 704880-67-1 CAPLUS

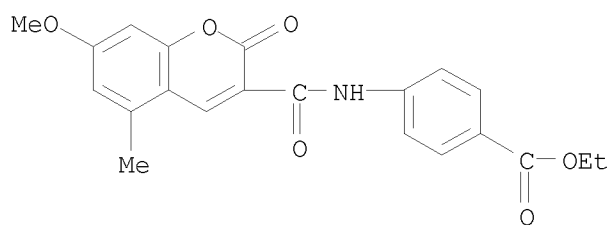
CN Benzoic acid, 2-hydroxy-5-[[(7-methoxy-5-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



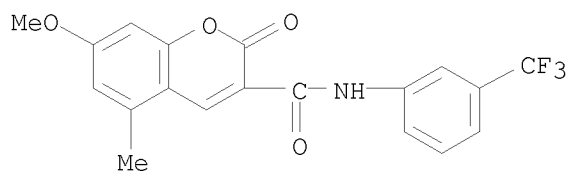
RN 704880-68-2 CAPLUS

CN Benzoic acid, 4-[[[(7-methoxy-5-methyl-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



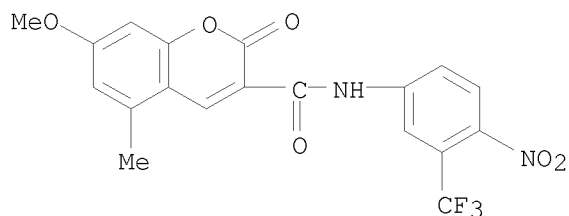
RN 704880-69-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-5-methyl-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 704880-70-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-5-methyl-N-[4-nitro-3-(trifluoromethyl)phenyl]-2-oxo- (CA INDEX NAME)



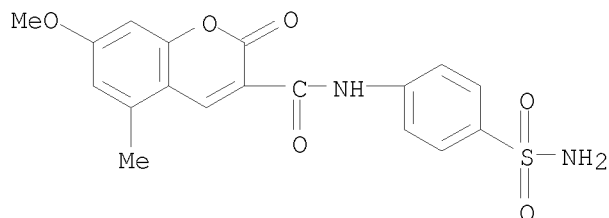
RN 704880-71-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-7-methoxy-5-methyl-2-oxo- (CA INDEX NAME)

<12/04/2007>

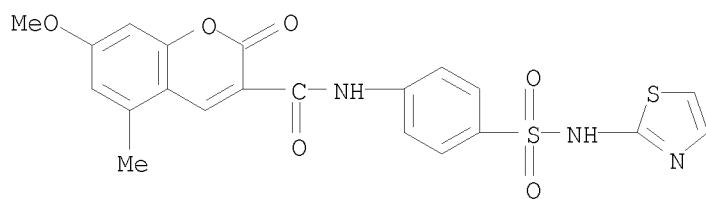
Erich Leese

10/513699



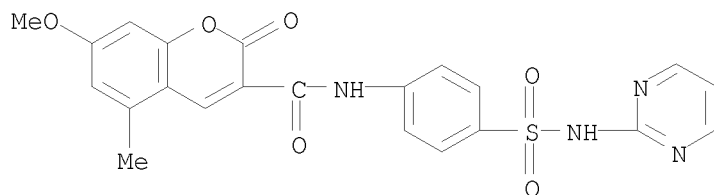
RN 704880-73-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-5-methyl-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



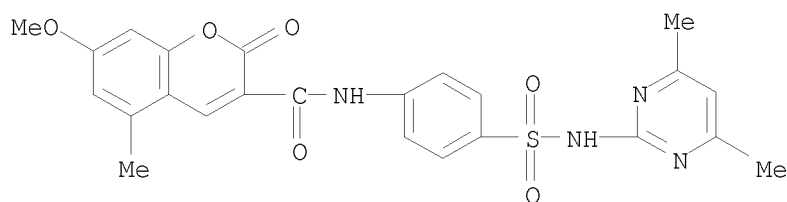
RN 704880-74-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-5-methyl-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 704880-75-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4,6-dimethyl-2-pyrimidinyl]amino]sulfonyl]phenyl]-7-methoxy-5-methyl-2-oxo- (CA INDEX NAME)

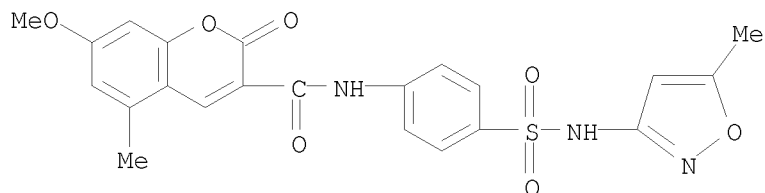


RN 704880-77-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-5-methyl-N-[4-[(5-methyl-3-pyridinyl)amino]sulfonyl]phenyl]- (CA INDEX NAME)

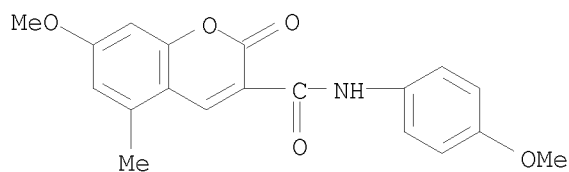
10/513699

isoxazolyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



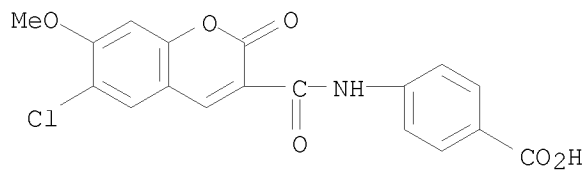
RN 704880-78-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-(4-methoxyphenyl)-5-methyl-2-oxo- (CA INDEX NAME)



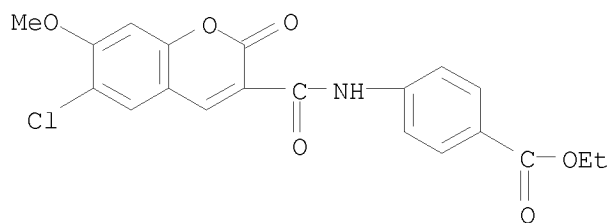
RN 704880-79-5 CAPLUS

CN Benzoic acid, 4-[[(6-chloro-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704880-82-0 CAPLUS

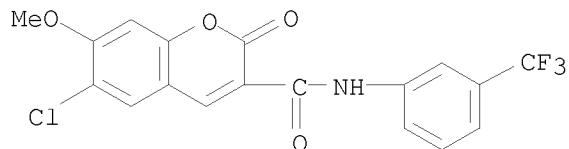
CN Benzoic acid, 4-[[(6-chloro-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 704880-83-1 CAPLUS

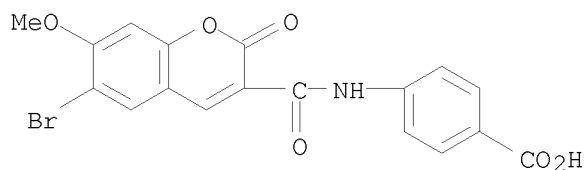
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-7-methoxy-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

10/513699



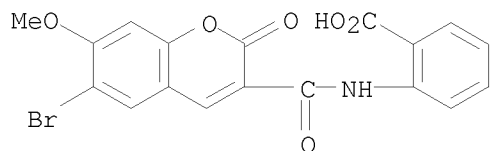
RN 704880-87-5 CAPLUS

CN Benzoic acid, 4-[[6-bromo-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



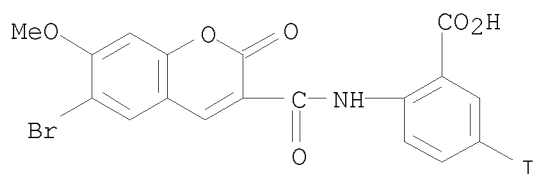
RN 704880-88-6 CAPLUS

CN Benzoic acid, 2-[[6-bromo-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



RN 704880-90-0 CAPLUS

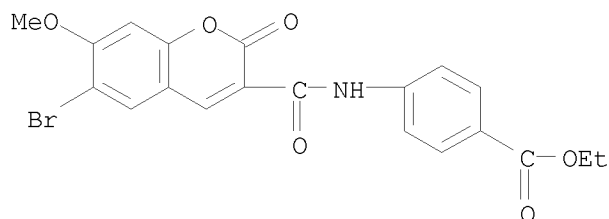
CN Benzoic acid, 2-[[6-bromo-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-5-iodo- (CA INDEX NAME)



RN 704880-91-1 CAPLUS

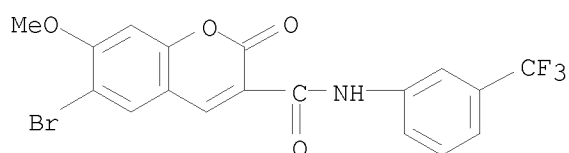
CN Benzoic acid, 4-[[6-bromo-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)

10/513699



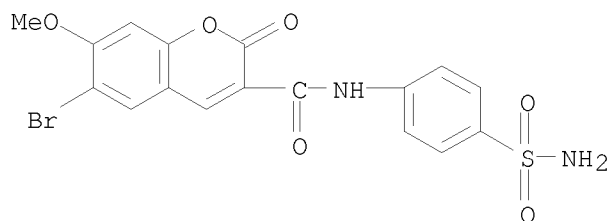
RN 704880-92-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-7-methoxy-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



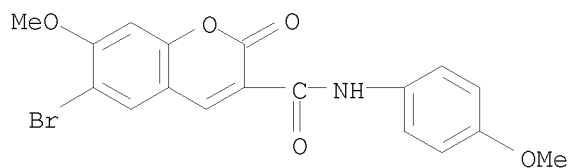
RN 704880-93-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-6-bromo-7-methoxy-2-oxo- (CA INDEX NAME)



RN 704880-94-4 CAPLUS

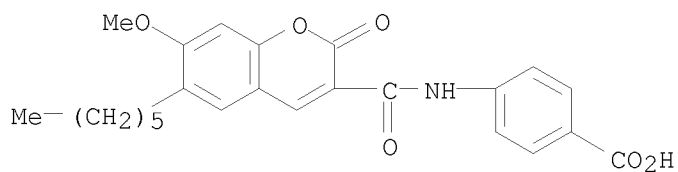
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-7-methoxy-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



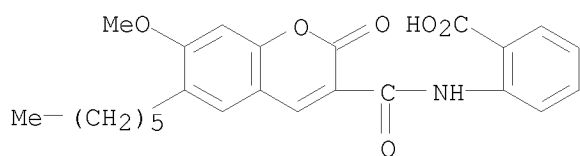
RN 704880-95-5 CAPLUS

CN Benzoic acid, 4-[[6-hexyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

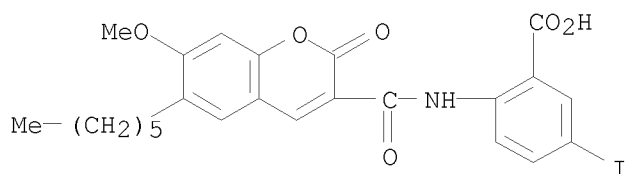
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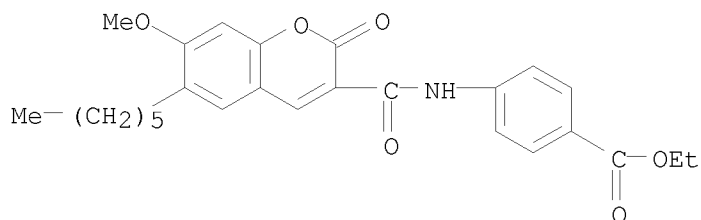
RN 704880-96-6 CAPLUS
CN Benzoic acid, 2-[[[6-hexyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



RN 704880-98-8 CAPLUS
CN Benzoic acid, 2-[[[6-hexyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-5-iodo- (CA INDEX NAME)

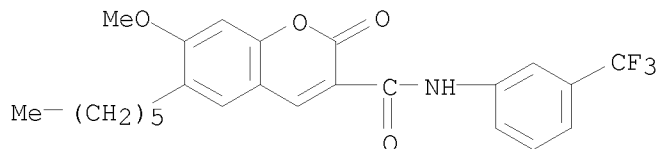


RN 704881-00-5 CAPLUS
CN Benzoic acid, 4-[[[6-hexyl-7-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)



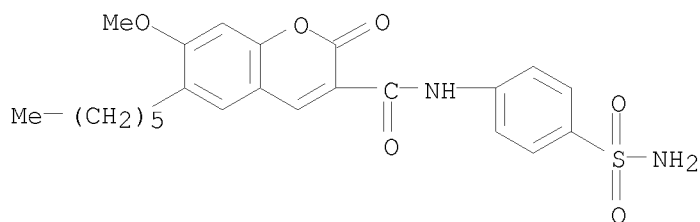
RN 704881-01-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-hexyl-7-methoxy-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

10/513699



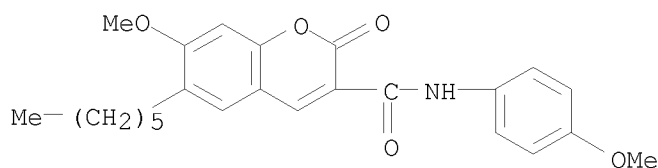
RN 704881-02-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-6-hexyl-7-methoxy-2-oxo- (CA INDEX NAME)



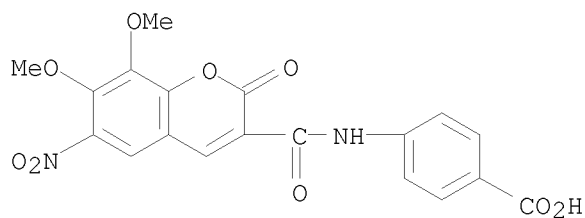
RN 704881-03-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-hexyl-7-methoxy-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 704881-04-9 CAPLUS

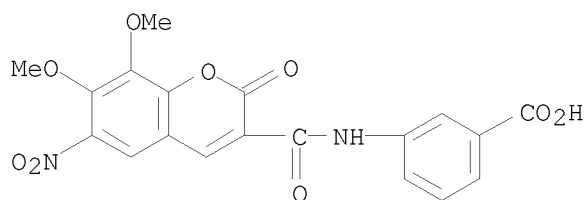
CN Benzoic acid, 4-[[(7,8-dimethoxy-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



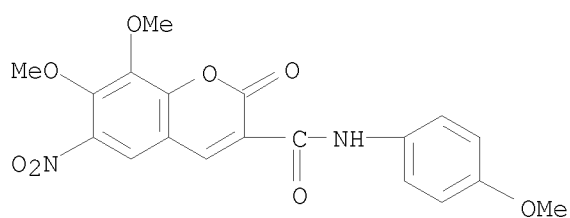
RN 704881-05-0 CAPLUS

CN Benzoic acid, 3-[[(7,8-dimethoxy-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

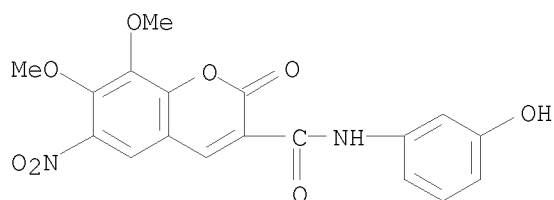
10/513699



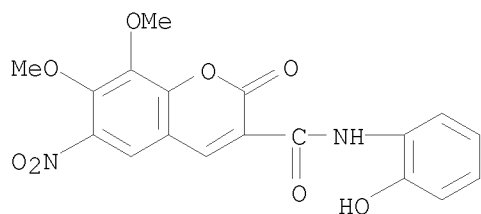
RN 704881-06-1 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-N-(4-methoxyphenyl)-6-nitro-2-oxo- (CA INDEX NAME)



RN 704881-07-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3-hydroxyphenyl)-7,8-dimethoxy-6-nitro-2-oxo- (CA INDEX NAME)

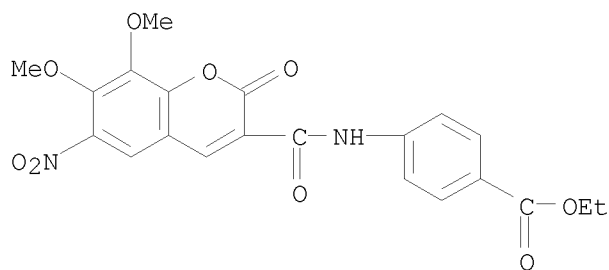


RN 704881-08-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2-hydroxyphenyl)-7,8-dimethoxy-6-nitro-2-oxo- (CA INDEX NAME)



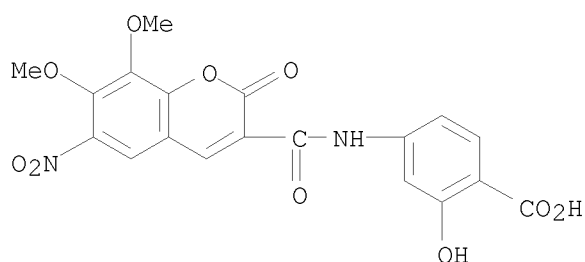
RN 704881-09-4 CAPLUS
CN Benzoic acid, 4-[[(7,8-dimethoxy-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

10/513699



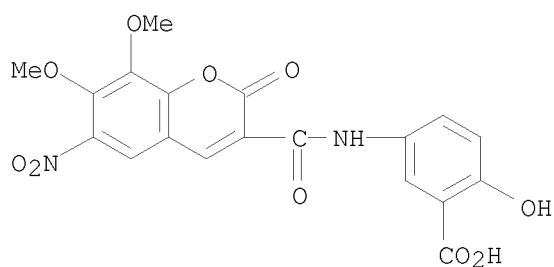
RN 704881-10-7 CAPLUS

CN Benzoic acid, 4-[[(7,8-dimethoxy-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704881-11-8 CAPLUS

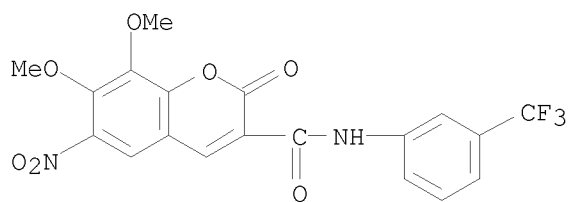
CN Benzoic acid, 5-[[(7,8-dimethoxy-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704881-12-9 CAPLUS

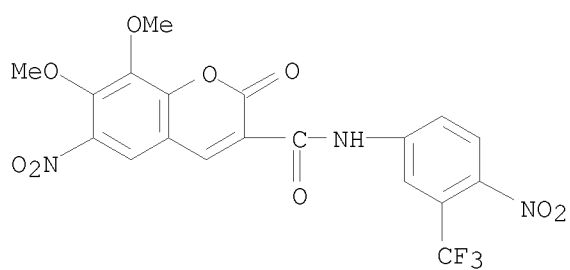
CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-6-nitro-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

10/513699



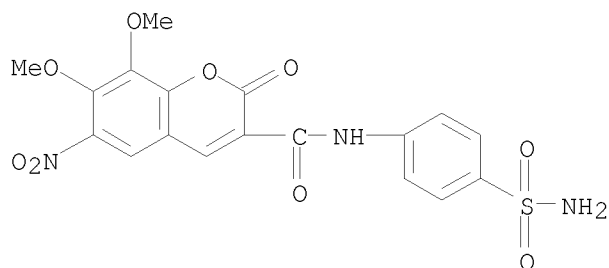
RN 704881-13-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-6-nitro-N-[4-nitro-3-(trifluoromethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 704881-14-1 CAPLUS

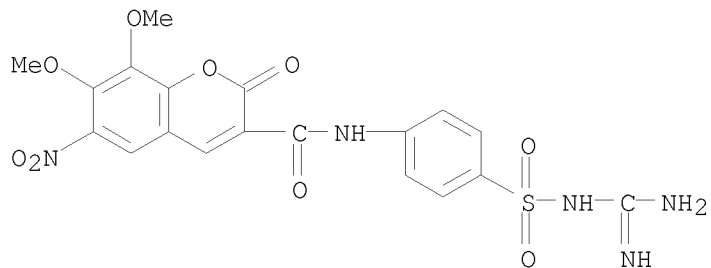
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-7,8-dimethoxy-6-nitro-2-oxo- (CA INDEX NAME)



RN 704881-15-2 CAPLUS

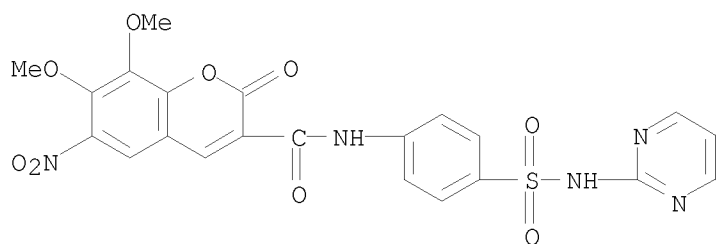
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl) amino]sulfonyl]phenyl]-7,8-dimethoxy-6-nitro-2-oxo- (CA INDEX NAME)

10/513699



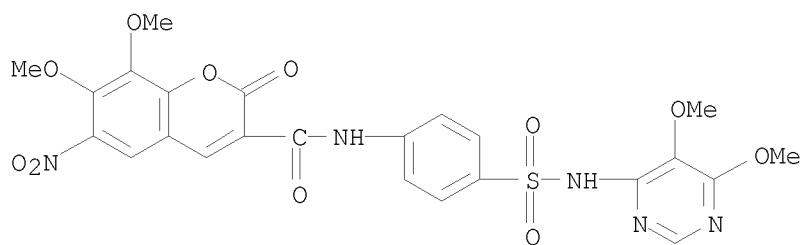
RN 704881-16-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-6-nitro-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 704881-17-4 CAPLUS

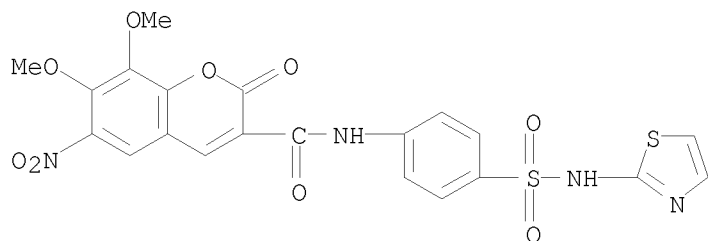
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5,6-dimethoxy-4-pyrimidinyl)amino]sulfonyl]phenyl]-7,8-dimethoxy-6-nitro-2-oxo- (CA INDEX NAME)



RN 704881-18-5 CAPLUS

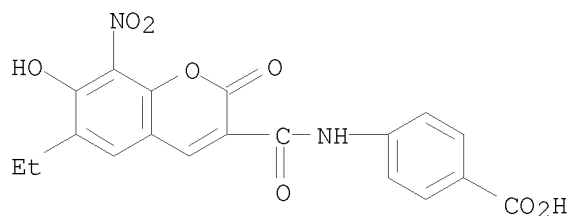
CN 2H-1-Benzopyran-3-carboxamide, 7,8-dimethoxy-6-nitro-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)

10/513699



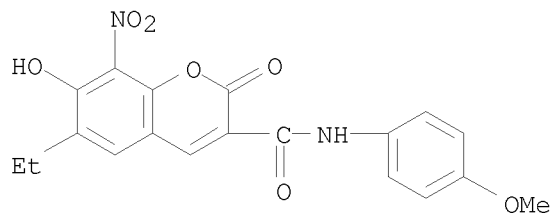
RN 704881-19-6 CAPLUS

CN Benzoic acid, 4-[[[(6-ethyl-7-hydroxy-8-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



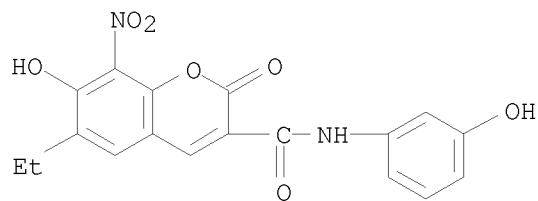
RN 704881-20-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-hydroxy-N-(4-methoxyphenyl)-8-nitro-2-oxo- (CA INDEX NAME)



RN 704881-21-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-hydroxy-N-(3-hydroxyphenyl)-8-nitro-2-oxo- (CA INDEX NAME)



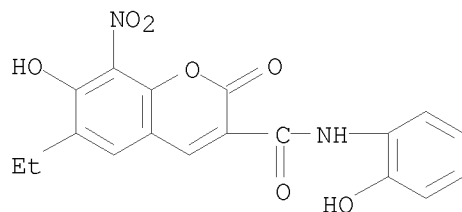
RN 704881-22-1 CAPLUS

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Erich Leese

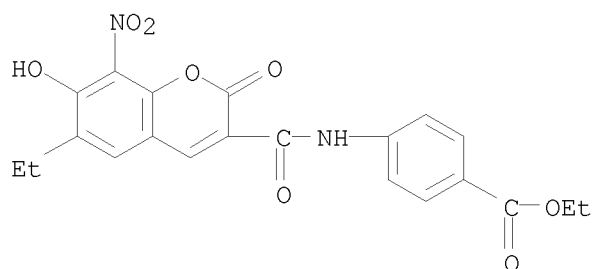
10/513699

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-hydroxy-N-(2-hydroxyphenyl)-8-nitro-2-oxo- (CA INDEX NAME)



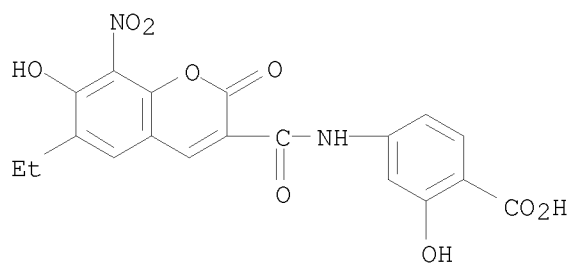
RN 704881-23-2 CAPLUS

CN Benzoic acid, 4-[[[(6-ethyl-7-hydroxy-8-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 704881-24-3 CAPLUS

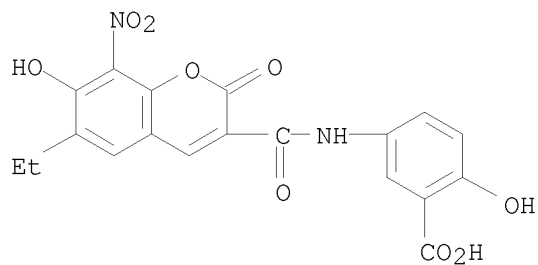
CN Benzoic acid, 4-[[[(6-ethyl-7-hydroxy-8-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704881-25-4 CAPLUS

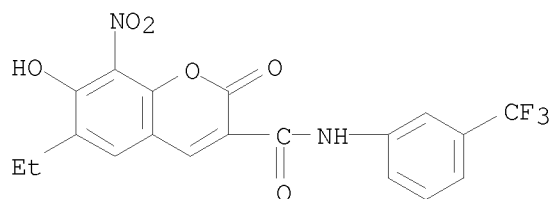
CN Benzoic acid, 5-[[[(6-ethyl-7-hydroxy-8-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)

10/513699



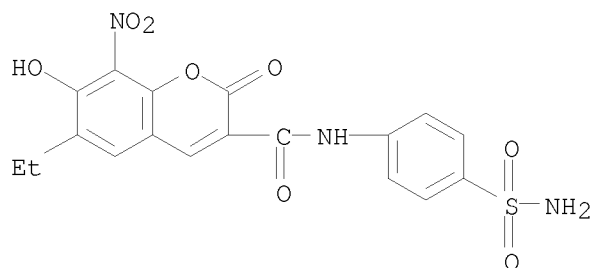
RN 704881-26-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-hydroxy-8-nitro-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 704881-27-6 CAPLUS

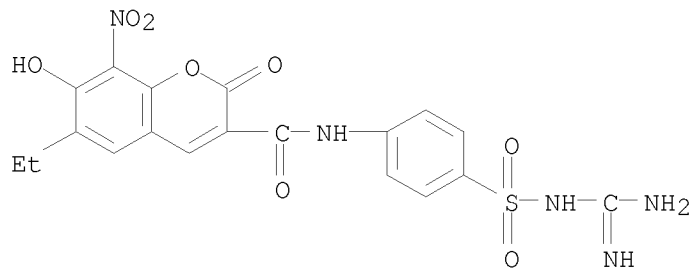
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-6-ethyl-7-hydroxy-8-nitro-2-oxo- (CA INDEX NAME)



RN 704881-28-7 CAPLUS

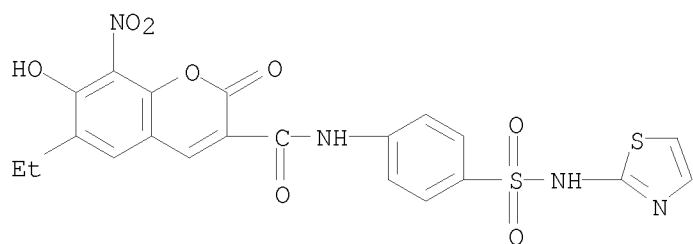
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl) amino]sulfonyl]phenyl]-6-ethyl-7-hydroxy-8-nitro-2-oxo- (CA INDEX NAME)

10/513699



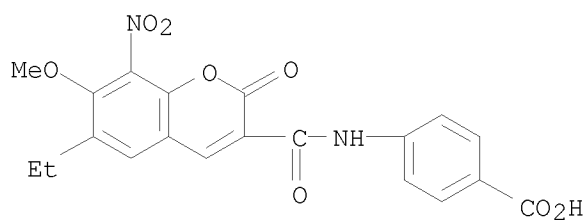
RN 704881-29-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-hydroxy-8-nitro-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



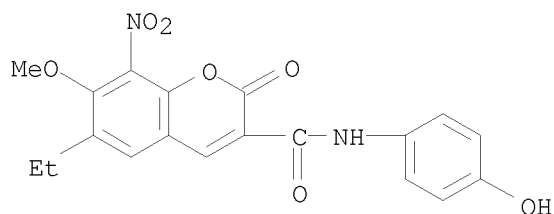
RN 704881-30-1 CAPLUS

CN Benzoic acid, 4-[[[(6-ethyl-7-methoxy-8-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704881-31-2 CAPLUS

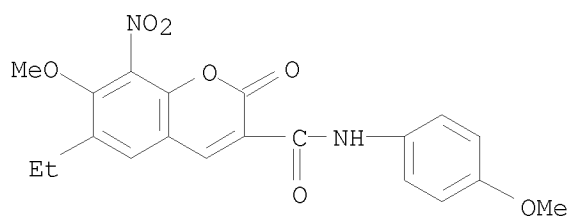
CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-N-(4-hydroxyphenyl)-7-methoxy-8-nitro-2-oxo- (CA INDEX NAME)



10/513699

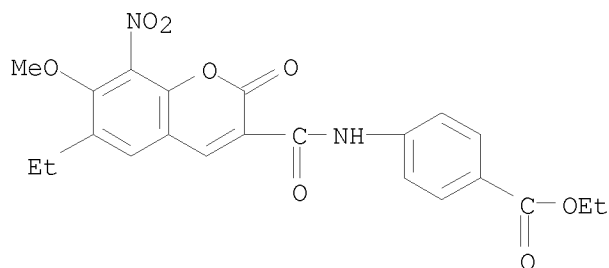
RN 704881-32-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-ethyl-7-methoxy-N-(4-methoxyphenyl)-8-nitro-2-oxo- (CA INDEX NAME)



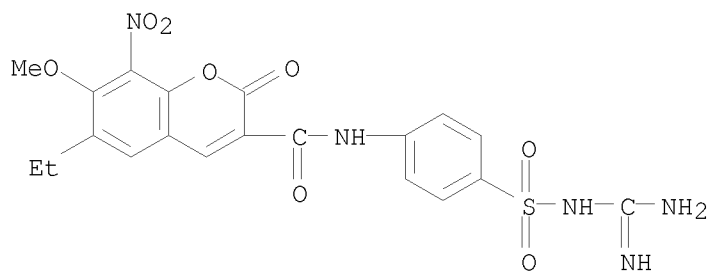
RN 704881-33-4 CAPLUS

CN Benzoic acid, 4-[[(6-ethyl-7-methoxy-8-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 704881-34-5 CAPLUS

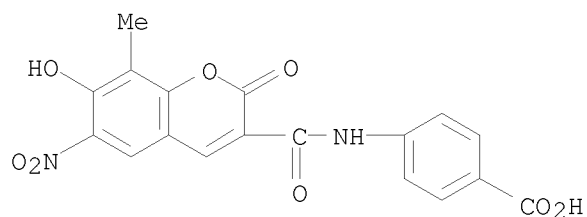
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl)amino]sulfonyl]phenyl]-6-ethyl-7-methoxy-8-nitro-2-oxo- (CA INDEX NAME)



RN 704881-35-6 CAPLUS

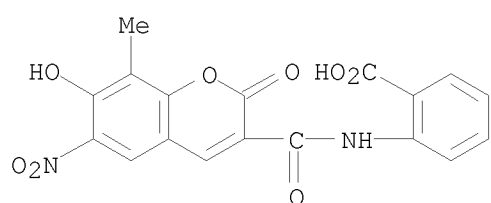
CN Benzoic acid, 4-[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



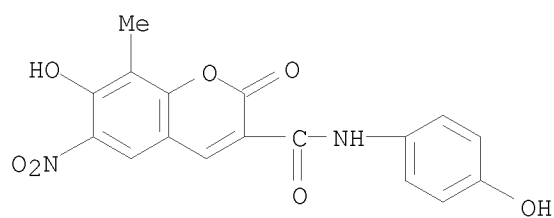
RN 704881-36-7 CAPLUS

CN Benzoic acid, 2-[[7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



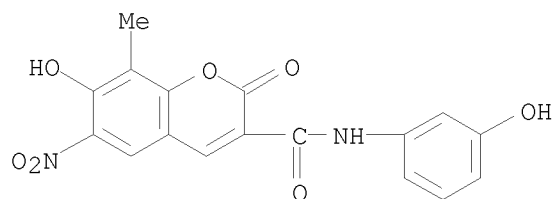
RN 704881-37-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(4-hydroxyphenyl)-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



RN 704881-38-9 CAPLUS

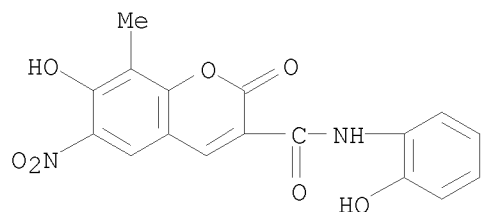
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(3-hydroxyphenyl)-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



RN 704881-39-0 CAPLUS

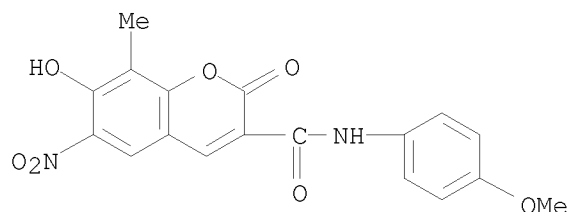
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(2-hydroxyphenyl)-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)

10/513699



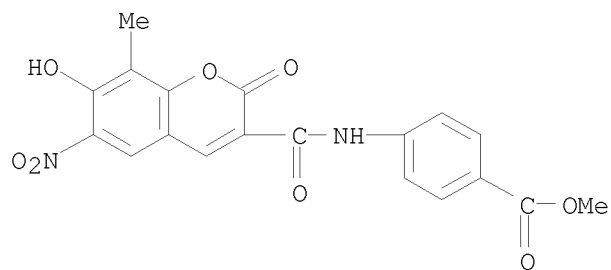
RN 704881-40-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(4-methoxyphenyl)-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



RN 704881-41-4 CAPLUS

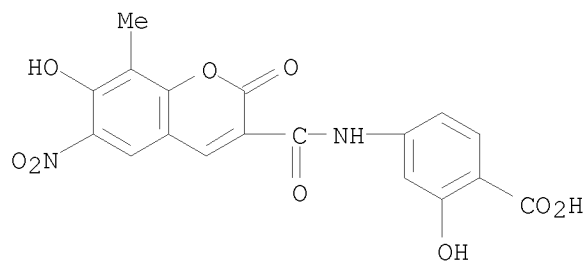
CN Benzoic acid, 4-[[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, methyl ester (CA INDEX NAME)



RN 704881-42-5 CAPLUS

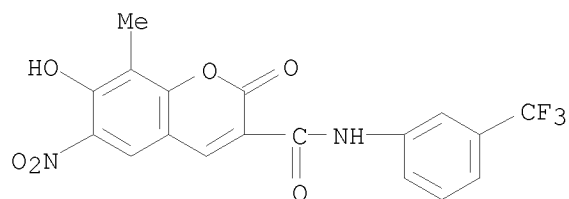
CN Benzoic acid, 2-hydroxy-4-[[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



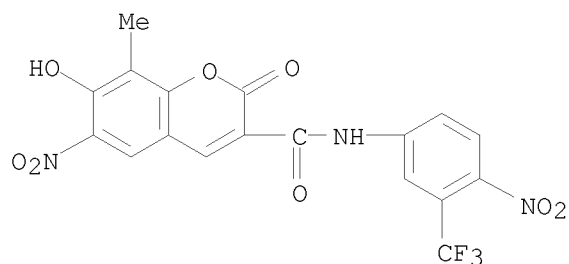
RN 704881-44-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-8-methyl-6-nitro-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



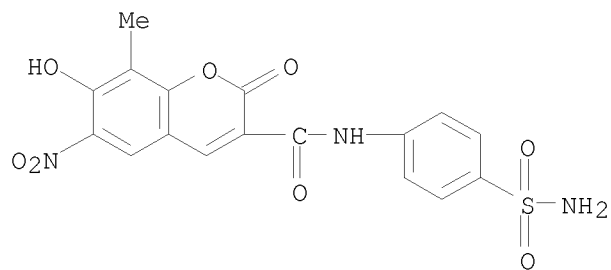
RN 704881-45-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-8-methyl-6-nitro-N-[4-nitro-3-(trifluoromethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 704881-46-9 CAPLUS

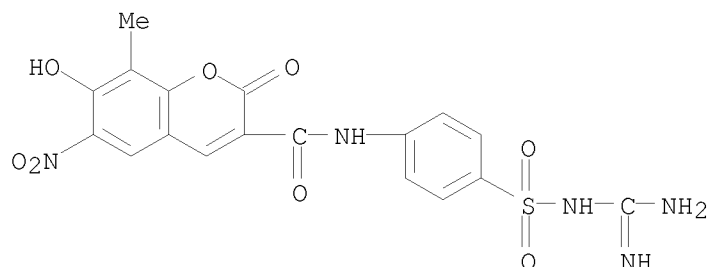
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-7-hydroxy-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



10/513699

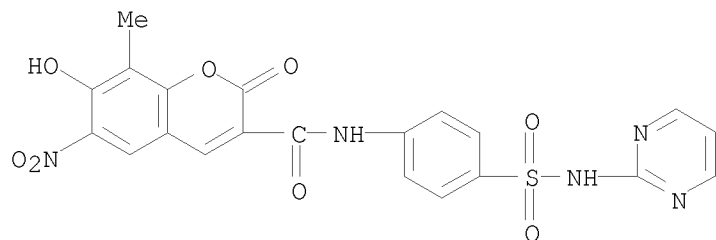
RN 704881-47-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-
[[(aminoiminomethyl) amino]sulfonyl]phenyl]-7-hydroxy-8-methyl-6-nitro-2-
oxo- (CA INDEX NAME)



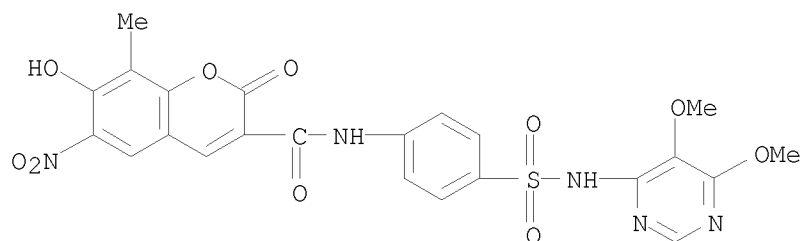
RN 704881-48-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-8-methyl-6-nitro-2-oxo-N-[4-[(2-
pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 704881-49-2 CAPLUS

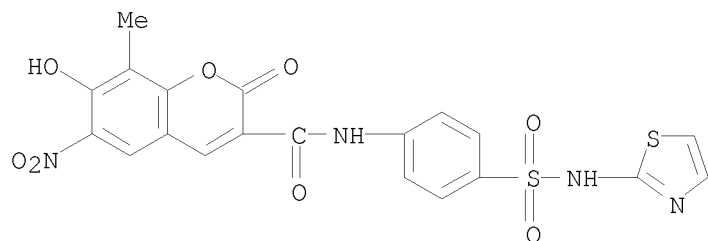
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5,6-dimethoxy-4-
pyrimidinyl)amino]sulfonyl]phenyl]-7-hydroxy-8-methyl-6-nitro-2-oxo- (CA
INDEX NAME)



RN 704881-50-5 CAPLUS

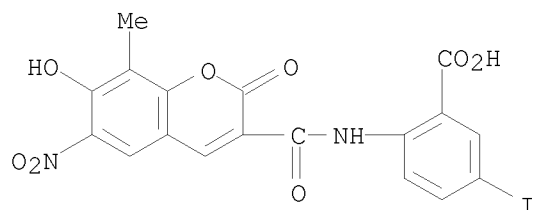
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-8-methyl-6-nitro-2-oxo-N-[4-[(2-
thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)

10/513699



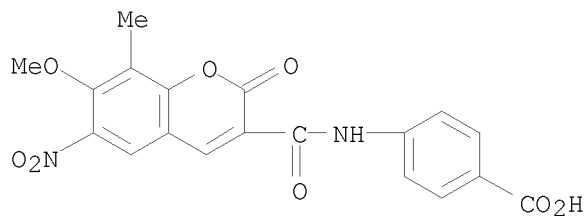
RN 704881-51-6 CAPLUS

CN Benzoic acid, 2-[[[(7-hydroxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-5-iodo- (CA INDEX NAME)



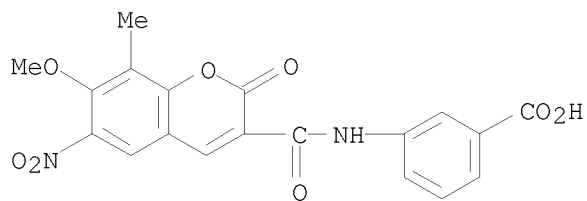
RN 704881-52-7 CAPLUS

CN Benzoic acid, 4-[[[(7-methoxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704881-53-8 CAPLUS

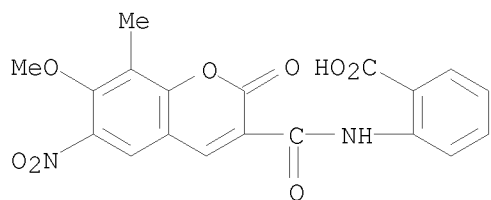
CN Benzoic acid, 3-[[[(7-methoxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704881-54-9 CAPLUS

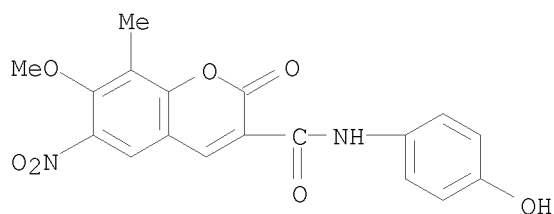
10/513699

CN Benzoic acid, 2-[[(7-methoxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



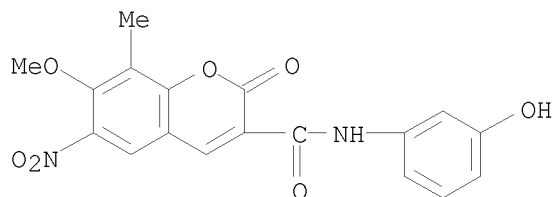
RN 704881-55-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-7-methoxy-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



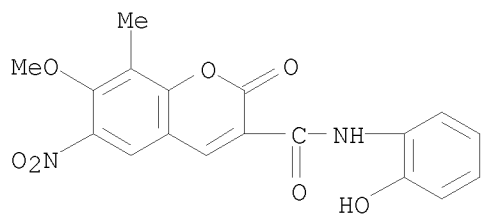
RN 704881-56-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3-hydroxyphenyl)-7-methoxy-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



RN 704881-57-2 CAPLUS

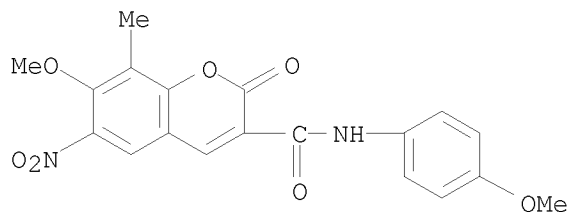
CN 2H-1-Benzopyran-3-carboxamide, N-(2-hydroxyphenyl)-7-methoxy-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



10/513699

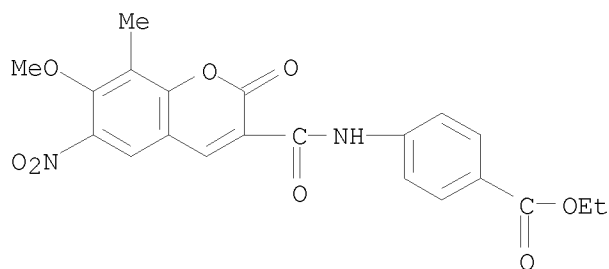
RN 704881-58-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-(4-methoxyphenyl)-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



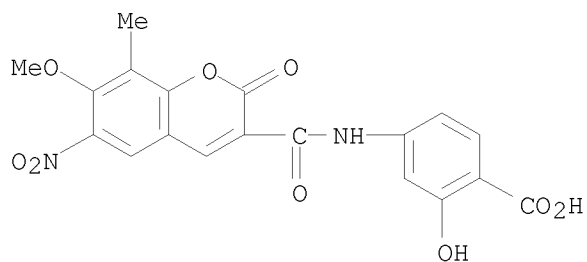
RN 704881-59-4 CAPLUS

CN Benzoic acid, 4-[[(7-methoxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 704881-60-7 CAPLUS

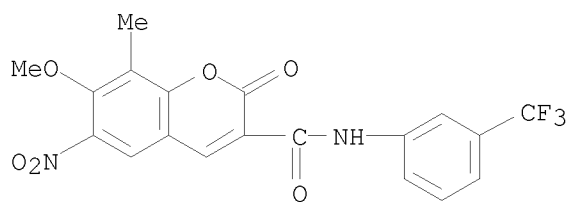
CN Benzoic acid, 2-hydroxy-4-[[(7-methoxy-8-methyl-6-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704881-61-8 CAPLUS

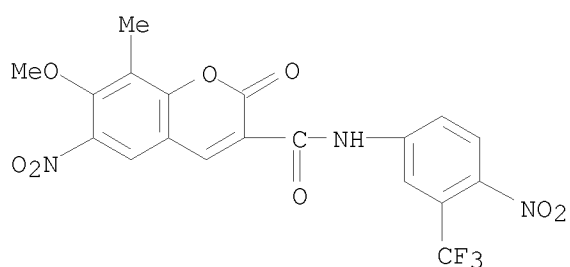
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-6-nitro-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

10/513699



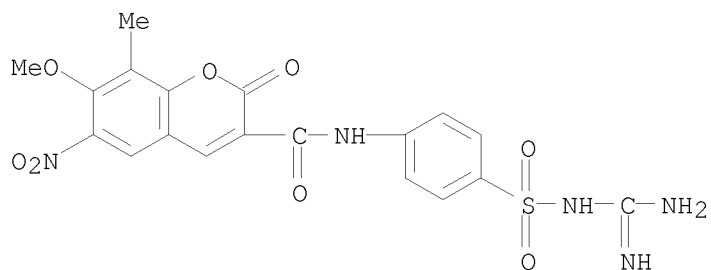
RN 704881-62-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-6-nitro-N-[4-nitro-3-(trifluoromethyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 704881-63-0 CAPLUS

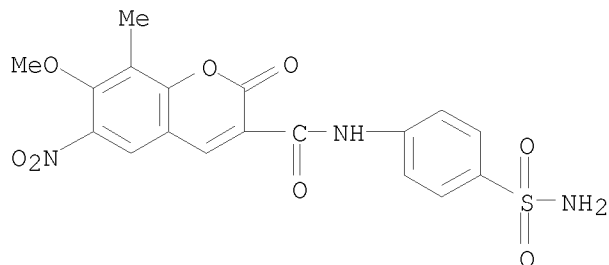
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl)amino]sulfonyl]phenyl]-7-methoxy-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)



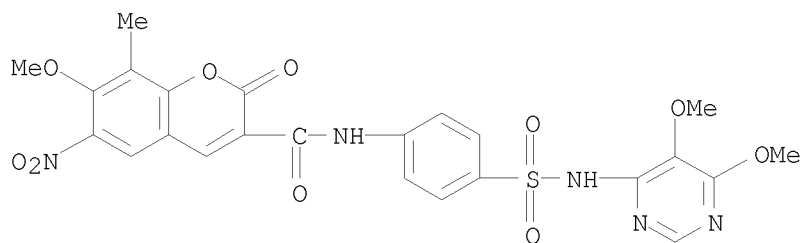
RN 704881-64-1 CAPLUS

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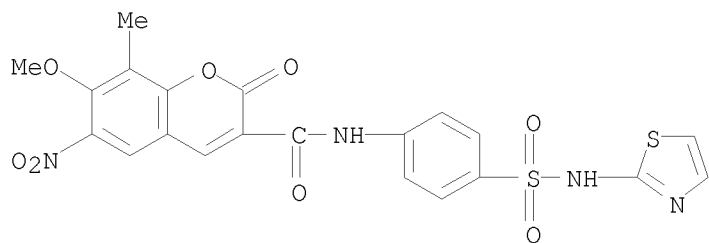
10/513699



RN 704881-65-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5,6-dimethoxy-4-pyrimidinyl)amino]sulfonyl]phenyl]-7-methoxy-8-methyl-6-nitro-2-oxo- (CA INDEX NAME)

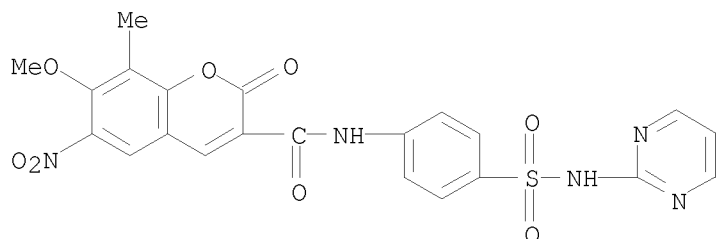


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CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-6-nitro-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



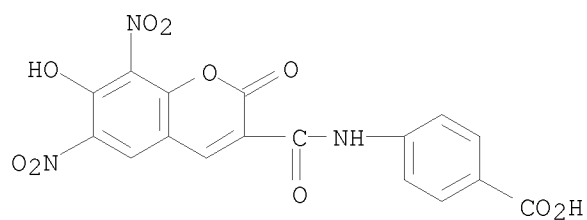
RN 704881-67-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-8-methyl-6-nitro-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)

10/513699



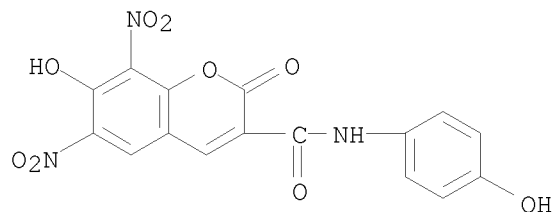
RN 704881-68-5 CAPLUS

CN Benzoic acid, 4-[[7-hydroxy-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)



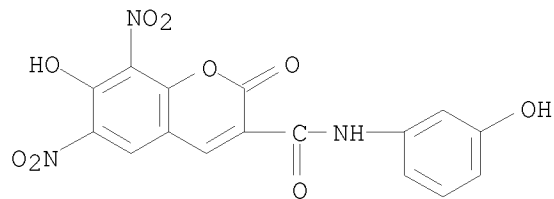
RN 704881-69-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(4-hydroxyphenyl)-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-70-9 CAPLUS

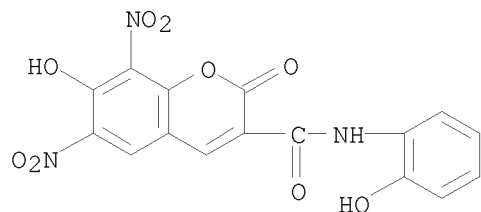
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(3-hydroxyphenyl)-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-71-0 CAPLUS

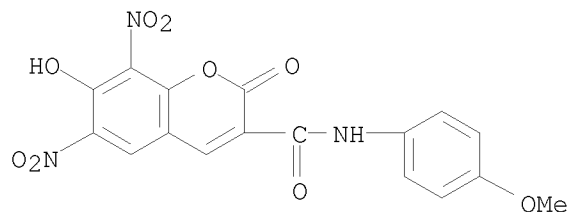
10/513699

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(2-hydroxyphenyl)-6,8-dinitro-2-oxo- (CA INDEX NAME)



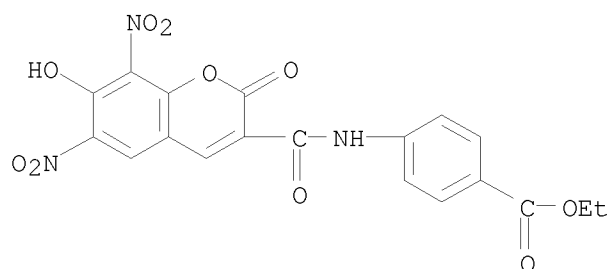
RN 704881-72-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(4-methoxyphenyl)-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-73-2 CAPLUS

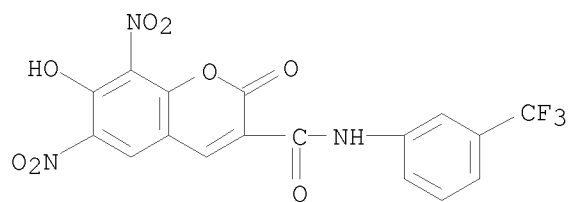
CN Benzoic acid, 4-[[(7-hydroxy-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



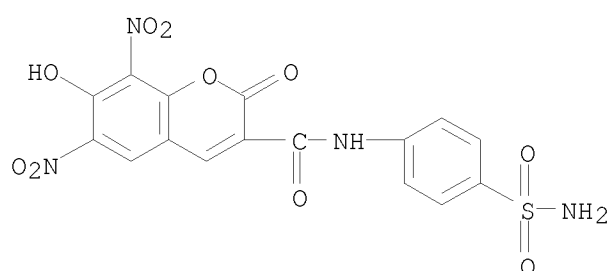
RN 704881-74-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-6,8-dinitro-2-oxo-N-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

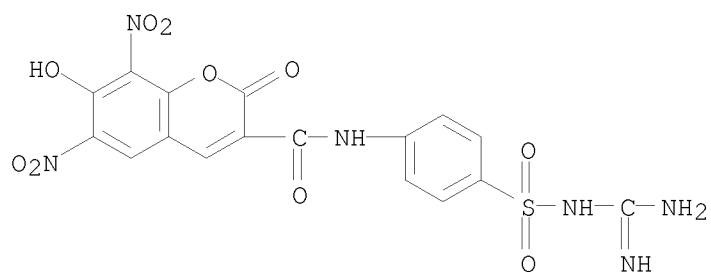
10/513699



RN 704881-75-4 CAPLUS
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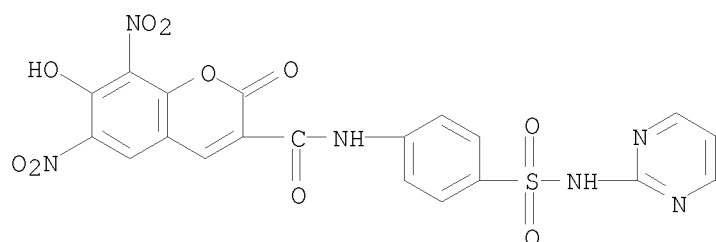


RN 704881-76-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl)amino]sulfonyl]phenyl]-7-hydroxy-6,8-dinitro-2-oxo- (CA INDEX NAME)



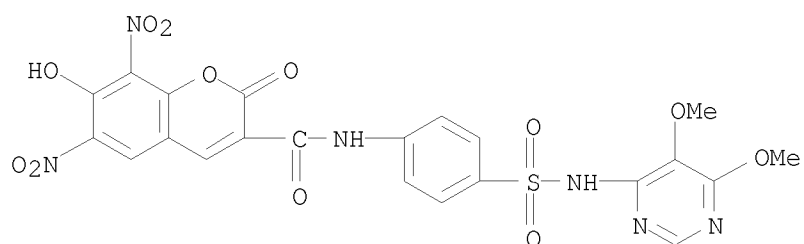
RN 704881-77-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-6,8-dinitro-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)

10/513699



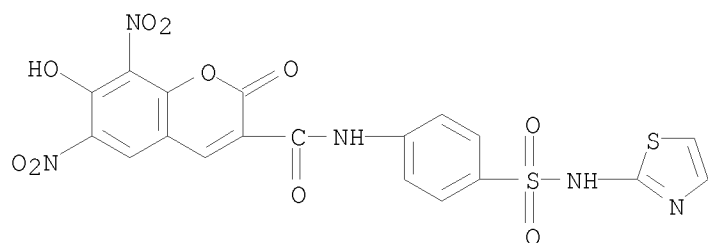
RN 704881-78-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5,6-dimethoxy-4-pyrimidinyl)amino]sulfonyl]phenyl]-7-hydroxy-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-79-8 CAPLUS

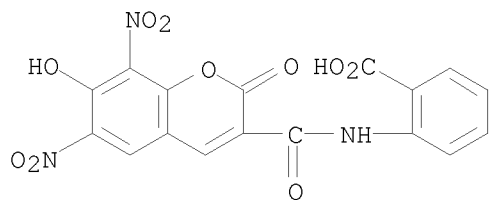
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-6,8-dinitro-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 704881-80-1 CAPLUS

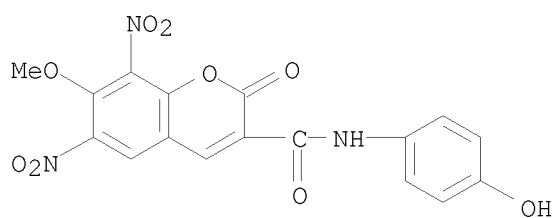
CN Benzoic acid, 2-[[[(7-hydroxy-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



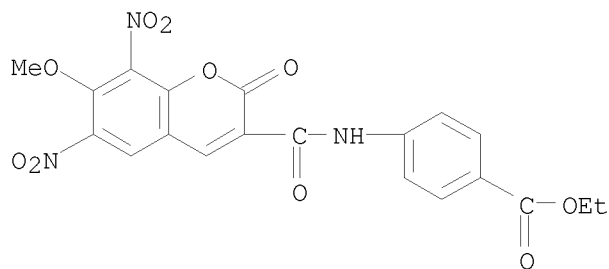
RN 704881-81-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-7-methoxy-6,8-dinitro-2-oxo- (CA INDEX NAME)



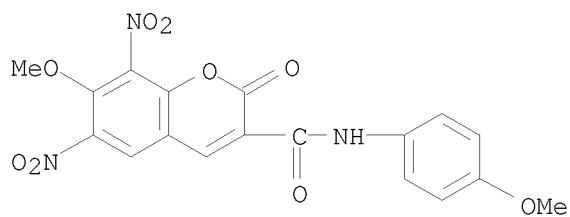
RN 704881-82-3 CAPLUS

CN Benzoic acid, 4-[[7-methoxy-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 704881-83-4 CAPLUS

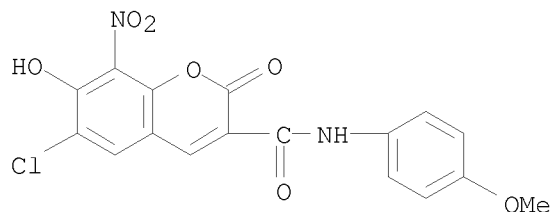
CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-N-(4-methoxyphenyl)-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-84-5 CAPLUS

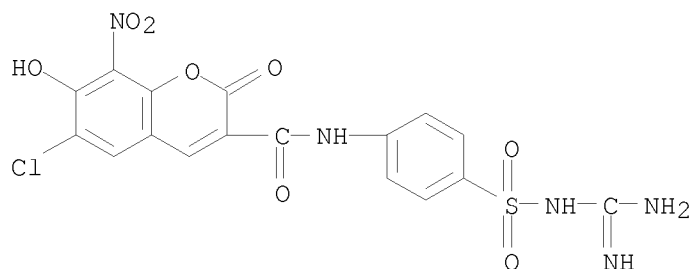
10/513699

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-7-hydroxy-N-(4-methoxyphenyl)-8-nitro-2-oxo- (CA INDEX NAME)



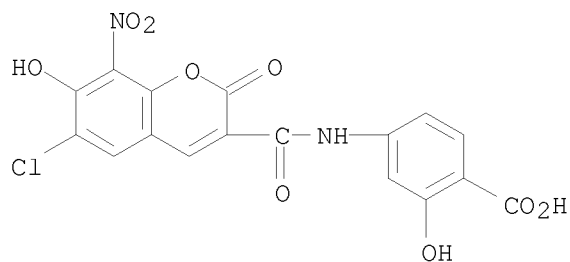
RN 704881-85-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(aminoiminomethyl) amino]sulfonyl]phenyl]-6-chloro-7-hydroxy-8-nitro-2-oxo- (CA INDEX NAME)



RN 704881-86-7 CAPLUS

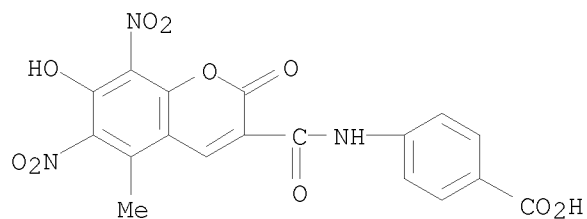
CN Benzoic acid, 4-[[(6-chloro-7-hydroxy-8-nitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-2-hydroxy- (CA INDEX NAME)



RN 704881-87-8 CAPLUS

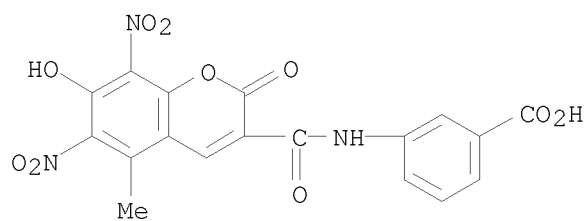
CN Benzoic acid, 4-[[(7-hydroxy-5-methyl-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



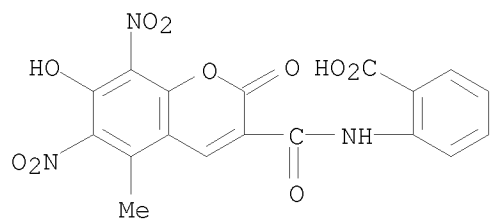
RN 704881-88-9 CAPLUS

CN Benzoic acid, 3-[[[7-hydroxy-5-methyl-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



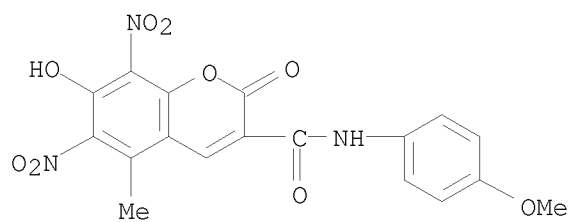
RN 704881-89-0 CAPLUS

CN Benzoic acid, 2-[[[7-hydroxy-5-methyl-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 704881-90-3 CAPLUS

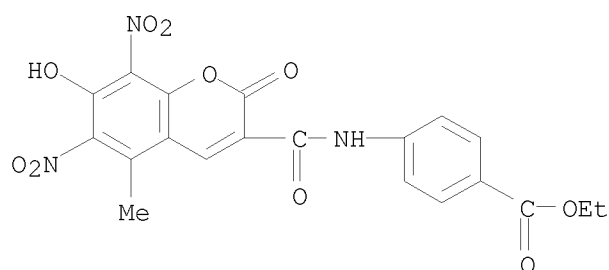
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-N-(4-methoxyphenyl)-5-methyl-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-91-4 CAPLUS

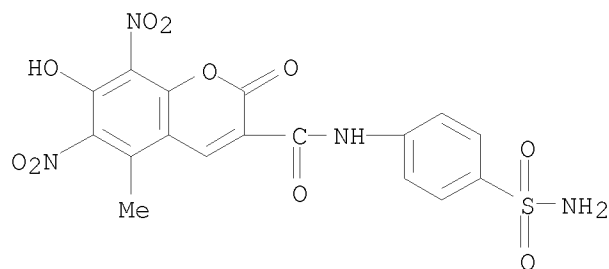
10/513699

CN Benzoic acid, 4-[[(7-hydroxy-5-methyl-6,8-dinitro-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



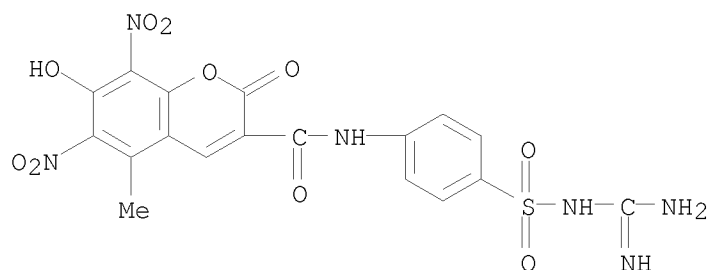
RN 704881-92-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-7-hydroxy-5-methyl-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-93-6 CAPLUS

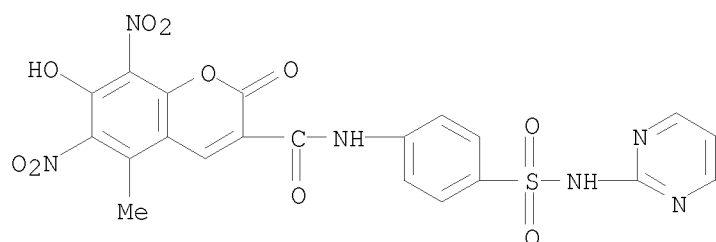
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(aminoiminomethyl)amino]sulfonyl]phenyl]-7-hydroxy-5-methyl-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 704881-94-7 CAPLUS

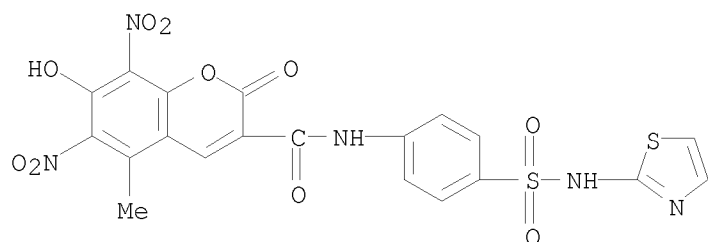
CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-5-methyl-6,8-dinitro-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)

10/513699



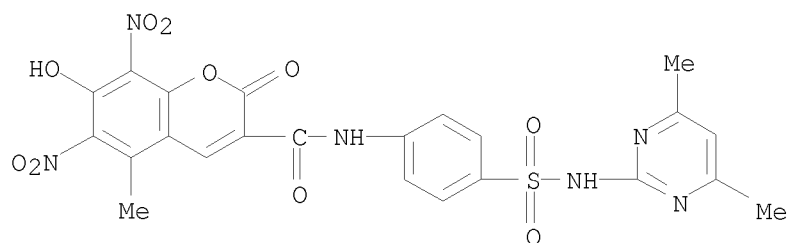
RN 704881-95-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-hydroxy-5-methyl-6,8-dinitro-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 704881-96-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4,6-dimethyl-2-pyrimidinyl]amino]sulfonyl]phenyl]-7-hydroxy-5-methyl-6,8-dinitro-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 45 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:233245 CAPLUS

DOCUMENT NUMBER: 141:207018

TITLE: Synthesis of N-aryl-coumarin-3-carboxamides by room-temperature grinding under solvent-free condition

AUTHOR(S): Li, Zheng; Yu, Jin-lan; Wang, Xi-cun

CORPORATE SOURCE: College of Chemistry and Chemical Engineering, Northwest Normal University, Lanzhou, Gansu, 730070, Peop. Rep. China

SOURCE: Xibei Shifan Daxue Xuebao, Ziran Kexueban (2004), 40(1), 42-44

CODEN: XDXKEH; ISSN: 1001-988X

PUBLISHER: Xibei Shifan Daxue

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 141:207018

AB The reactions of coumarin-3-carboxylic acid chloride with equivalent of various arylamines under solventless and room-temperature grinding condition expeditiously gained N-aryl-coumarin-3-carboxamides in quant. yield. This synthetic strategy compared with traditional solution protocol has advantages of no organic solvent pollution, elevating reaction rate, high yield and simple work-up procedure.

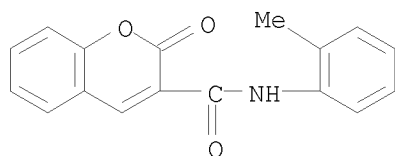
IT 1846-98-6P 1847-00-3P 1847-02-5P
54396-25-7P 74555-99-0P 157309-57-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis of N-aryl-coumarin-3-carboxamides by room-temperature grinding under solvent-free condition)

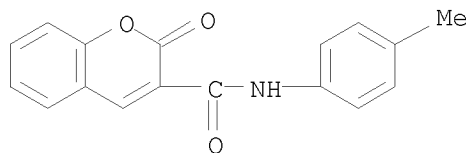
RN 1846-98-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

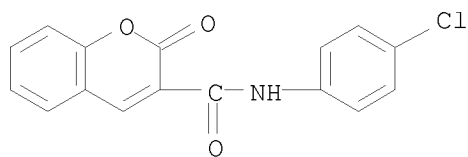
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-02-5 CAPLUS

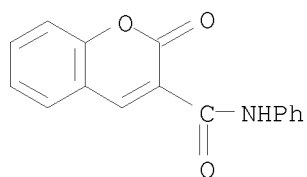
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)

10/513699



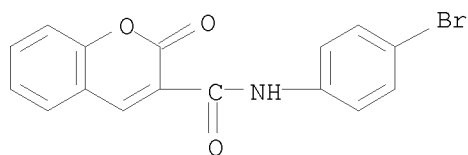
RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



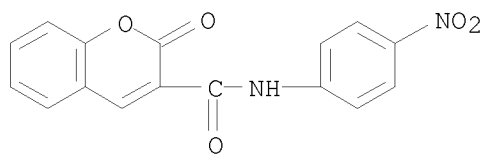
RN 74555-99-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)



RN 157309-57-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



L4 ANSWER 46 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:79109 CAPLUS

DOCUMENT NUMBER: 140:280773

TITLE: Carbonic Anhydrase Inhibitors. Inhibition of Mitochondrial Isozyme V with Aromatic and Heterocyclic Sulfonamides

AUTHOR(S): Vullo, Daniela; Franchi, Marco; Gallori, Enzo; Antel, Jochen; Scozzafava, Andrea; Supuran, Claudiu T.

CORPORATE SOURCE: Laboratorio di Chimica Bioinorganica, Universita degli Studi di Firenze, Sesto Fiorentino (Firenze), I-50019, Italy

SOURCE: Journal of Medicinal Chemistry (2004), 47(5), 1272-1279

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:280773

AB The first inhibition study of the mitochondrial isoenzyme carbonic anhydrase (CA) V (of murine origin) with a series of aromatic and heterocyclic sulfonamides is reported. Inhibition data of the cytosolic isoenzymes CA I and CA II and the membrane-bound isoenzyme CA IV with these inhibitors are also provided for comparison. Several low nanomolar CA V inhibitors were detected (KI values in the range of 4-15 nM), most of them belonging to the acylated sulfanilamide, ureido-benzenesulfonamide, 1,3,4-thiadiazole-2-sulfonamide, and aminobenzolamide type of compds. The clin. used inhibitors acetazolamide, methazolamide, ethoxzolamide, dorzolamide, brinzolamide, and topiramate on the other hand were less effective CA V inhibitors, showing inhibition consts. in the range of 47-63 nM. Some of the investigated sulfonamides, such as the ureido-benzenesulfonamides and the acylated sulfanilamides showed higher affinity for CA V than for the other isoenzymes, CA II included, which is a remarkable result, since most compds. investigated up to now inhibited the cytosolic isoenzyme CA II better. These results prompt us to hypothesize that the selective inhibition of CA V, or the dual inhibition of CA II and CA V, may lead to the development of novel pharmacol. applications for such sulfonamides, for example in the treatment or prevention of obesity, by inhibiting CA-mediated lipogenetic processes.

IT 111456-11-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

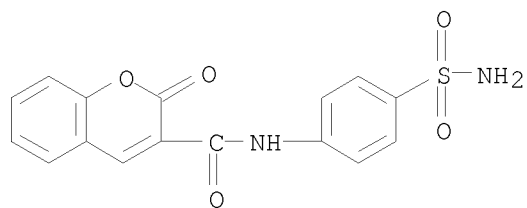
(preparation and structure-activity relationship of aromatic and heterocyclic

sulfonamides as mitochondrial isoenzyme carbonic anhydrase V inhibitors)

RN 111456-11-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-2-oxo- (CA INDEX NAME)

10/513699



OS.CITING REF COUNT:	71	THERE ARE 71 CAPLUS RECORDS THAT CITE THIS RECORD (71 CITINGS)
REFERENCE COUNT:	46	THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 47 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:971725 CAPLUS

DOCUMENT NUMBER: 140:35893

TITLE: Transcription factor modulating compounds and methods of use thereof

INVENTOR(S): Levy, Stuart B.; Alekshun, Michael N.; Podlogar, Brent L.; Ohemeng, Kwasi; Verma, Atul K.; Warchol, Tadeusz; Bhatia, Beena

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 301 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030229065	A1	20031211	US 2002-139591	20020814
CA 2445515	A1	20021104	CA 2002-2445515	20020506
WO 2004001058	A2	20031231	WO 2002-US14255	20020506
WO 2004001058	A3	20050303		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002367953	A1	20040106	AU 2002-367953	20020506
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EP 1524974	A2	20050427	EP 2002-807554	20020506
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US 20050124678	A1	20050609	US 2003-700661	20031103
US 7405235	B2	20080729		
US 20090131401	A1	20090521	US 2008-69723	20080212
AU 2008203017	A1	20080731	AU 2008-203017	20080708
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			AU 2002-367953	A3 20020506
			WO 2002-US14255	W 20020506
			US 2002-139591	A2 20020814
			US 2002-423319P	P 20021101
			US 2002-425916P	P 20021113
			US 2003-700661	A3 20031103

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 140:35893

AB Methods for identifying compound useful as anti-infectives that decrease resistance, virulence, or growth of microbes are provided. In one embodiment, the method comprises contacting a microbial cell comprising: (1) a selectable marker under the control of a transcription factor responsive element and (2) a transcription factor, with a compound under conditions which allow interaction of the compound with the microbial cell;

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and measuring the ability of the compound to affect the growth or survival of the microbial cell as an indication of whether the test compound modulates the activity of a transcription factor.

IT 156172-93-9

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

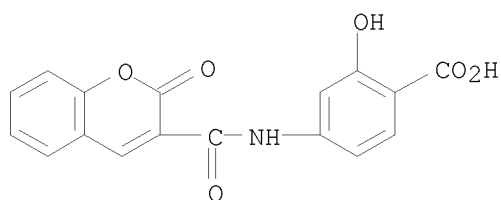
(transcription factor modulating compds. as anti-infectives agents that decrease resistance and virulence and growth identified by determining

marker

under control of responsive element)

RN 156172-93-9 CAPLUS

CN Benzoic acid, 2-hydroxy-4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-
(CA INDEX NAME)



OS.CITING REF COUNT:

4

THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

10/513699

L4 ANSWER 48 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:807792 CAPLUS

DOCUMENT NUMBER: 140:391166

TITLE: Product class 4: benzopyranones and benzopyranthiones

AUTHOR(S): Williams, A. C.; Camp, N.

CORPORATE SOURCE: Germany

SOURCE: Science of Synthesis (2003), 14, 347-638

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Methods for preparing 2H-1-benzopyran-2-ones, 4H-1-benzopyran-4-ones, 1H-2-benzopyran-1-ones, 6H-dibenzo[b,d]pyran-6-ones, 9H-xanthenones and their corresponding thione analogs as well as 3H-2-benzopyran-3-ones are surveyed. Synthetic methods include ring closure, ring transformation, aromatization and substituent modification reactions.

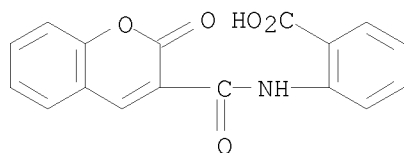
IT 73877-78-8P 111947-24-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of benzopyranones and benzopyranthiones via ring closure, ring transformations, aromatization and substituent modifications)

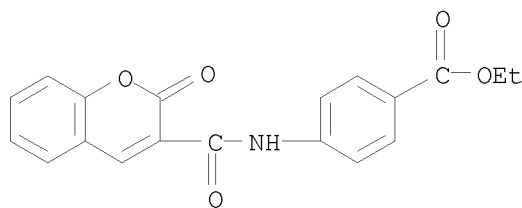
RN 73877-78-8 CAPLUS

CN Benzoic acid, 2-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

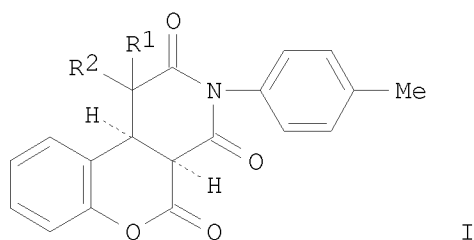


OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

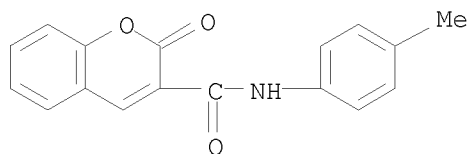
REFERENCE COUNT: 1083 THERE ARE 1083 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 49 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:320690 CAPLUS
DOCUMENT NUMBER: 139:85261
TITLE: Synthesis of 4a,10b-dihydro-1H-chromeno[3,4-c]pyridine-
2,4,5-triones via the Reformatskii reaction
AUTHOR(S): Shchepin, V. V.; Fotin, D. V.
CORPORATE SOURCE: Perm State University, Perm, 614000, Russia
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY,
United States) (Translation of Khimiya
Geterotsiklicheskikh Soedinenii) (2002), 38(11),
1430-1431
CODEN: CHCCAL; ISSN: 0009-3122
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:85261
GI



AB Title compds. I (R1 = H, R2 = H, Et; R1 = R2 = Me) were prepared by the
Reformatskii reaction of chromenecarboxanilide II with R1R2CBrCOOMe.
Yields were 68-81%.
IT 1847-00-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(4a,10b-dihydro-1H-chromeno[3,4-c]pyridine-2,4,5-triones via
Reformatskii reaction of oxochromenecarboxanilide with bromo esters)
RN 1847-00-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 50 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:215686 CAPLUS

DOCUMENT NUMBER: 137:288515

TITLE: Study on HCMV protease inhibitors (II) design and synthesis of heterocyclic inhibitors

AUTHOR(S): Xu, Ping; Zhang, Xin; Zhang, Huaning

CORPORATE SOURCE: Department of Medicinal Chemistry, School of Pharmaceutical Sciences, Peking University, Beijing, 100083, Peop. Rep. China

SOURCE: Zhongguo Yaowu Huaxue Zazhi (2002), 12(1), 13-16

CODEN: ZYHZEJ; ISSN: 1005-0108

PUBLISHER: Zhongguo Yaowu Huaxue Zazhi Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB The human cytomegalovirus (HCMV) is a member of the herpesvirus family infecting 40%-80% of the general population. HCMV can cause fatal infections in immunocompromised individuals. HCMV encodes a serine protease that is essential for viral replication and is a potential target for antiviral drug development. The heterocyclic HCMV protease inhibitors were studied. A series of heterocyclic compds. were selected for HCMV protease inhibitor by searching the MDDR library with the Docking approach based on the crystal structure data of HCMV protease and its peptidomimetic inhibitor complex. From the list, compds. 2-(coumarin-3-yl)-5-fluoro-4H-3,1-benzoxazin-4-one (I) and 3-(2-hydroxy-4-methylbenzoyl)-2-(4-methoxy-phenyl)-2,3-dihydro-isoindol-1-one (II) were synthesized and tested first. Cyclocondensation of salicylic aldehyde with di-Et malonate gave Et coumarin-3-carboxylate (1), which was changed to coumarin-3-carbonyl chloride (3) by hydrolysis and then chlorination. Compound 3 condensed with 2-amino-6-fluorobenzoic acid to produce compound I. 3-Methyl-phenol condensed with ninhydrin and then reacted with 4-amino-anisole to give compound II. The structures of the product were confirmed by MS, IR, ¹H- NMR spectra and C, H, N elemental anal.

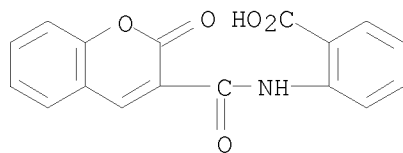
IT 73877-78-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(HCMV protease inhibitors (II) design and synthesis of heterocyclic inhibitors)

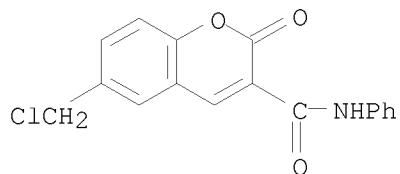
RN 73877-78-8 CAPLUS

CN Benzoic acid, 2-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



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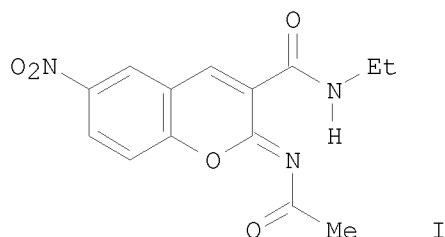
L4 ANSWER 51 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:211242 CAPLUS
DOCUMENT NUMBER: 137:241666
TITLE: Structural approach of the mechanism of inhibition of
 α -chymotrypsin by coumarins
AUTHOR(S): Wouters, Johan; Huygens, Marjorie; Pochet, Lionel;
Pirotte, Bernard; Durant, Francois; Masereel, Bernard
CORPORATE SOURCE: Laboratoire de Chimie Moléculaire Structurale,
Facultés Universitaires N.-D. de la Paix, Namur,
B-5000, Belg.
SOURCE: Bioorganic & Medicinal Chemistry Letters (2002),
12(7), 1109-1112
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A pharmacophore associated to the inhibition of α -chymotrypsin has been
built based on the structural and electronic characterization of a series
of coumarin derivs.
IT 176770-48-2
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Structural approach of the mechanism of inhibition of
 α -chymotrypsin by coumarins)
RN 176770-48-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-(chloromethyl)-2-oxo-N-phenyl- (CA INDEX
NAME)



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
RECORD (11 CITINGS)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

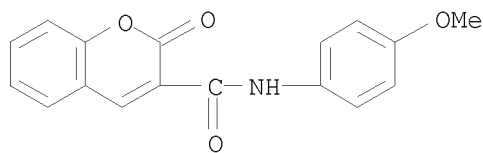
L4 ANSWER 52 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:70608 CAPLUS
DOCUMENT NUMBER: 136:309779
TITLE: Synthesis and antimicrobial activity of
2-iminocoumarin-3-carboxylic acid amides
AUTHOR(S): Ukhov, S. V.; Kon'shin, M. E.; Odegova, T. F.
CORPORATE SOURCE: State Pharmaceutical Academy, Perm, Russia
SOURCE: Pharmaceutical Chemistry Journal (Translation of
Khimiko-Farmatsevticheskii Zhurnal) (2001), 35(7),
364-365
CODEN: PCJOAU; ISSN: 0091-150X
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:309779
GI



AB A series of 2-iminocoumarin-3-carboxylic acid amides, e.g. I, were prepared and evaluated for antimicrobial activity. It was established that all the synthesized compds. possess antimicrobial properties with respect to both *St. aureus* and *E. coli*. The most active substances significantly exceed ethacridine in the bacteriostatic effect.

IT 1846-94-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and antimicrobial activity of 2-iminocoumarin-3-carboxylic acid amides)

RN 1846-94-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 53 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:436226 CAPLUS

DOCUMENT NUMBER: 135:195475

TITLE: Recyclization of 2-imino-2H-1-benzopyrans under the action of nucleophilic reagents. 5. Reaction of 2-iminocoumarin-3-carboxamide with anthranilic acid and its derivatives

AUTHOR(S): Kovalenko, S. N.; Bylov, I. E.; Belokon, Ya. V.; Chernykh, V. P.

CORPORATE SOURCE: Ukrainian Pharmaceutical Academy, Kharkov, 310002, Ukraine

SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States)(Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2001), Volume Date 2000, 36(9), 1026-1031
CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:195475

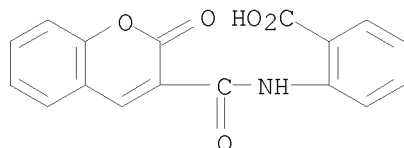
AB N-Substituted 2-iminocoumarins are formed on reacting 2-iminocoumarin-3-carboxamide with anthranilic acid, Me anthranilate, anthranilamide, and anthranilonitrile. Depending on the reaction conditions, these recyclize into the corresponding 3-substituted coumarins or are hydrolyzed to coumarin-3-carboxamide. An alternative synthesis of some of the compds. has been effected.

IT 73877-78-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction of 2-iminocoumarin-3-carboxamide with anthranilic acid and its derivs.)

RN 73877-78-8 CAPLUS

CN Benzoic acid, 2-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/513699

L4 ANSWER 54 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:910560 CAPLUS

DOCUMENT NUMBER: 134:222337

TITLE: A new pathway to 3-hetaryl-2-oxo-2H-chromenes: On the proposed mechanisms for the reaction of 3-carbamoyl-2-iminochromenes with dinucleophiles

AUTHOR(S): Kovalenko, Sergiy M.; Bylov, Igor E.; Sytnik, Konstantyn M.; Chernykh, Valentyn P.; Bilokin, Yaroslav V.

CORPORATE SOURCE: Department of Organic Chemistry, Ukrainian National Academy of Pharmacy, Kharkov, 61002, Ukraine

SOURCE: Molecules [online computer file] (2000), 5(10), 1146-1165

CODEN: MOLEFW; ISSN: 1420-3049

URL: <http://www.mdpi.org/molecules/papers/51001146.pdf>

PUBLISHER: Molecular Diversity Preservation International

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:222337

AB The present account summarizes the author's studies to elucidate the mechanisms of the recently reported rearrangements resulting from inter- and/or intramol. reactions of 2-imino-2H-chromene-3-carboxamides with different dinucleophiles.

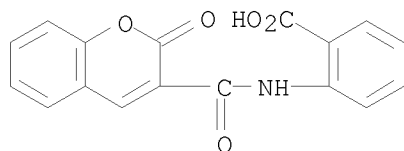
IT 73877-78-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(a new pathway to 3-heteroaryl-2-oxo-2H-chromenes and reaction mechanism of 3-carbamoyl-2-iminochromenes with dinucleophiles)

RN 73877-78-8 CAPLUS

CN Benzoic acid, 2-[[(2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]- (CA INDEX NAME)

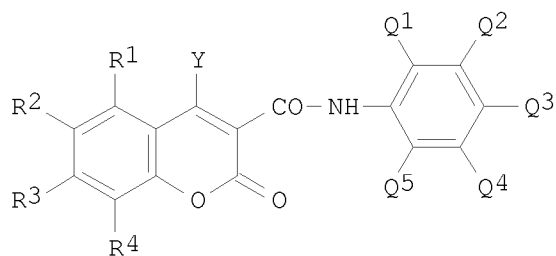


OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 55 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2000:544733 CAPLUS
 DOCUMENT NUMBER: 133:170290
 TITLE: Optical recording medium using coumarin-type amides
 INVENTOR(S): Ogiso, Akira; Tsukahara, Hiroshi; Nishimoto, Taizo;
 Misawa, Tsutayoshi; Takuma, Keisuke
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan;
 Yamamoto Chemicals Inc.
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000218940	A	20000808	JP 1999-25249	19990202
PRIORITY APPLN. INFO.:			JP 1999-25249	19990202
OTHER SOURCE(S):	MARPAT 133:170290			
GI				



I

AB The medium involves a substrate, a reflecting layer, and an optical recording layer containing coumarin-type amides I [R1-R4 = H, halogen, (substituted) alkyl, aralkyl, aryl, alkenyl, alkoxy, aralkyloxy, aryloxy, alkenyloxy, alkylthio, aralkylthio, arylthio, alkenylthio, alkylamino, aralkylamino, arylamino, alkenylamino; R2-R4 may form rings; Q1-Q5 = H, halogen, cyano, NO2, (substituted) alkyl, aralkyl, aryl, alkoxy, aralkyloxy, aryloxy, alkenyl, alkenyloxy, alkylthio, aralkylthio, arylthio, alkenylthio, alkylamino, aralkylamino, arylamino, alkenylamino, acyl, alkoxy carbonyl, aralkyloxy carbonyl, aryloxy carbonyl, alkenyloxy carbonyl, alkylaminocarbonyl, aralkylaminocarbonyl, arylaminocarbonyl, alkenylaminocarbonyl, heterocycle, alkylsulfonyl, arylsulfonyl, arylazo; Y = H, halogen, cyano, (substituted) alkoxy carbonyl, aralkyloxy carbonyl, aryloxy carbonyl, alkenyloxy carbonyl, alkylaminocarbonyl, aralkylaminocarbonyl, arylaminocarbonyl, alkenylaminocarbonyl]. The recordable medium is suitable for recording by blue light (400-500 nm) laser.

IT 287920-70-1 287920-72-3 287920-76-7
 287920-78-9 287920-80-3 287920-86-9
 287920-88-1 287920-96-1 287920-99-4
 287921-01-1 287921-02-2

RL: DEV (Device component use); USES (Uses)

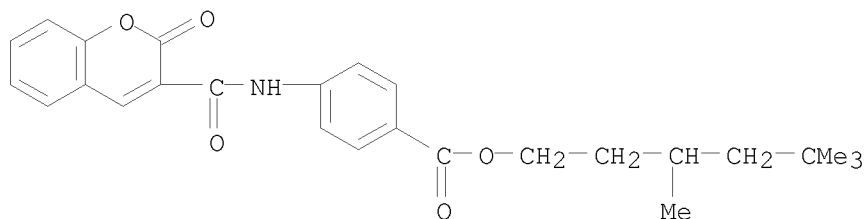
(recordable optical disk using coumarin amide for blue light laser)

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recording)

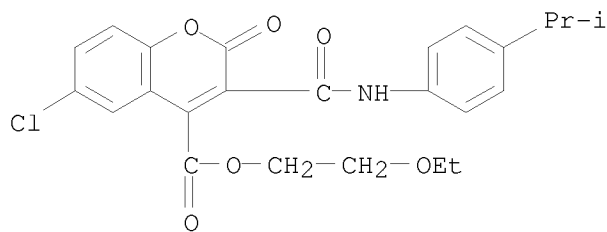
RN 287920-70-1 CAPLUS

CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]-, 3,5,5-trimethylhexyl ester (CA INDEX NAME)



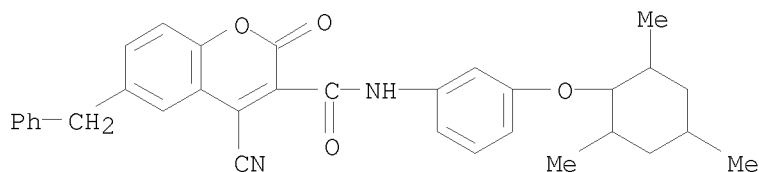
RN 287920-72-3 CAPLUS

CN 2H-1-Benzopyran-4-carboxylic acid, 6-chloro-3-[[[4-(1-methylethyl)phenyl]amino]carbonyl]-2-oxo-, 2-ethoxyethyl ester (CA INDEX NAME)



RN 287920-76-7 CAPLUS

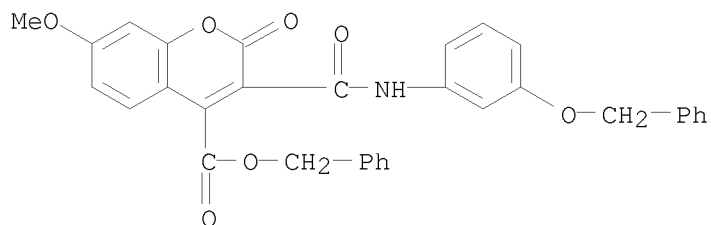
CN 2H-1-Benzopyran-3-carboxamide, 4-cyano-2-oxo-6-(phenylmethyl)-N-[3-[(2,4,6-trimethylcyclohexyl)oxy]phenyl]- (CA INDEX NAME)



RN 287920-78-9 CAPLUS

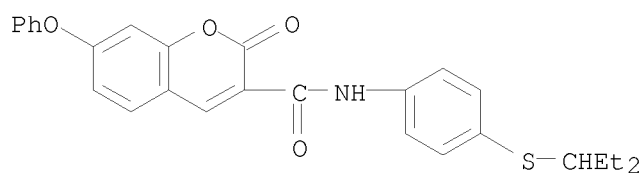
CN 2H-1-Benzopyran-4-carboxylic acid, 7-methoxy-2-oxo-3-[[[3-(phenylmethoxy)phenyl]amino]carbonyl]-, phenylmethyl ester (CA INDEX NAME)

10/513699



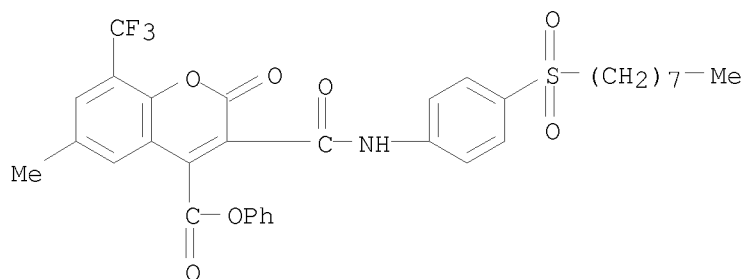
RN 287920-80-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1-ethoxypropyl)thio]phenyl]-2-oxo-7-phenoxy- (CA INDEX NAME)



RN 287920-86-9 CAPLUS

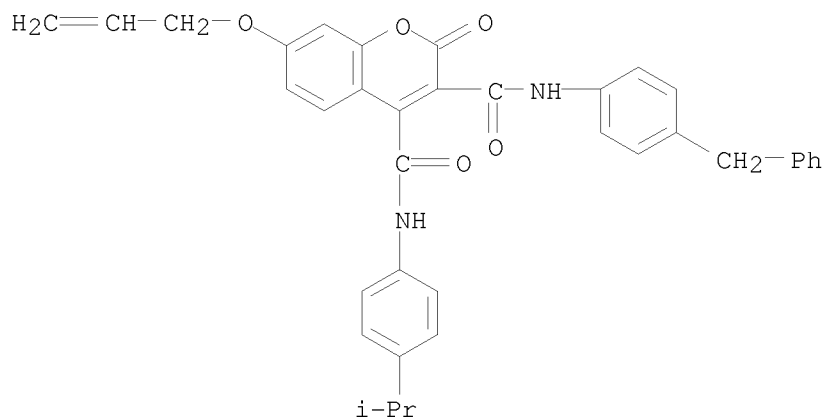
CN 2H-1-Benzopyran-4-carboxylic acid, 6-methyl-3-[[[4-(octylsulfonyl)phenyl]amino]carbonyl]-2-oxo-8-(trifluoromethyl)-, phenyl ester (CA INDEX NAME)



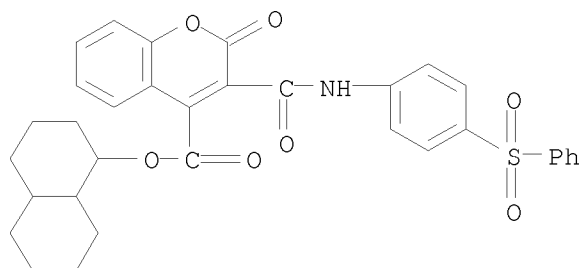
RN 287920-88-1 CAPLUS

CN 2H-1-Benzopyran-3,4-dicarboxamide, N4-[4-(1-methylethyl)phenyl]-2-oxo-N3-[4-(phenylmethyl)phenyl]-7-(2-propen-1-yloxy)- (CA INDEX NAME)

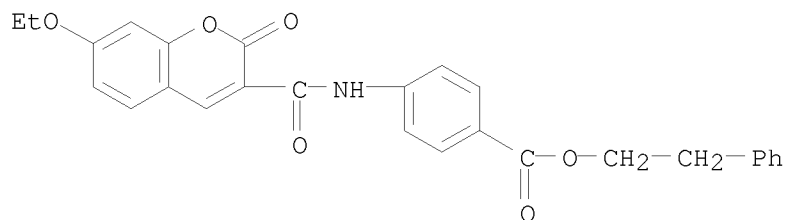
10/513699



RN 287920-96-1 CAPLUS
CN 2H-1-Benzopyran-4-carboxylic acid,
2-oxo-3-[[[4-(phenylsulfonyl)phenyl]amino]carbonyl]-,
decahydro-1-naphthalenyl ester (CA INDEX NAME)

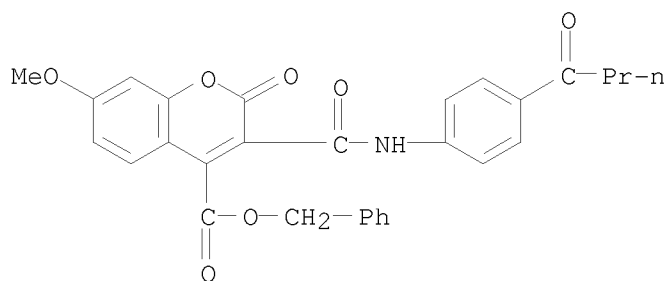


RN 287920-99-4 CAPLUS
CN Benzoic acid, 4-[[[4-(1-oxobutyl)phenyl]amino]carbonyl]-,
phenylmethyl ester (CA INDEX NAME)



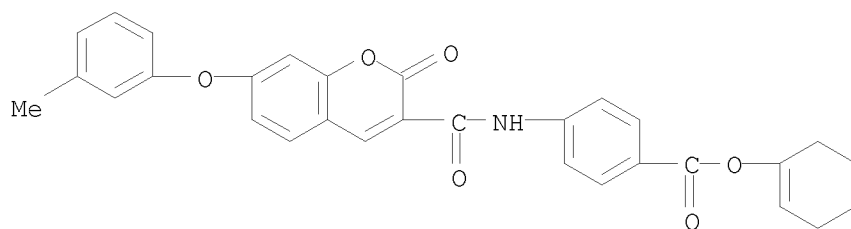
RN 287921-01-1 CAPLUS
CN 2H-1-Benzopyran-4-carboxylic acid,
7-methoxy-2-oxo-3-[[[4-(1-oxobutyl)phenyl]amino]carbonyl]-, phenylmethyl
ester (CA INDEX NAME)

10/513699



RN 287921-02-2 CAPLUS

CN Benzoic acid, 4-[[[7-(3-methylphenoxy)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, 1-cyclohexen-1-yl ester (CA INDEX NAME)



L4 ANSWER 56 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:454842 CAPLUS

DOCUMENT NUMBER: 133:187587

TITLE: Coumarinic derivatives as mechanism-based inhibitors

of α -chymotrypsin and human leukocyte elastase

AUTHOR(S): Pochet, L.; Doucet, C.; Dive, G.; Wouters, J.;

Masereel, B.; Reboud-Ravaux, M.; Pirotte, B.

CORPORATE SOURCE: FUNDP, Department of Pharmacy, University of Namur,

Namur, B-50000, Belg.

SOURCE: Bioorganic & Medicinal Chemistry (2000), 8(6),
1489-1501

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

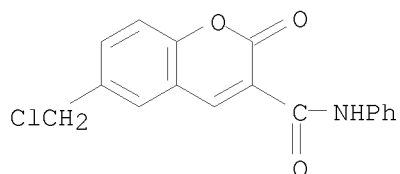
AB Novel coumarinic derivs. were synthesized and tested for their inhibitory potency toward α -CT and HLE. Cycloalkyl esters and amides were found to be essentially inactive on both enzymes. On the opposite, aromatic esters strongly inactivated α -CT whereas HLE was less efficiently inhibited with dichlorophenyl ester derivs. (kinact/KI=4000 M⁻¹ s⁻¹ for 36). Representative examples of amide, ester, thioester and ketone derivs. were prepared in order to evaluate the influence of the link between the coumarinic ring and the Ph side chain. The irreversible inactivation of α -CT by 6-chloromethyl derivs. should be due to alkylation of a histidine residue as suggested by the amino acid anal. of the modified chymotrypsin. Conversely the inhibition of HLE was transient. Intrinsic reactivity of coumarins has been calculated using a model of a nucleophilic reaction between the ligand and the couple methanol-water. From this calcn., it appears that differences in the inhibitory potency expressed by these mols. cannot only be explained by differences in the reactivity of the lactonic carbonyl group toward the nucleophilic attack.

IT 176770-48-2P

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process) (coumarinic derivs. as mechanism-based enzyme inhibitors)

RN 176770-48-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-(chloromethyl)-2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 29 THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS)

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 57 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:269241 CAPLUS

DOCUMENT NUMBER: 133:73957

TITLE: Synthetic reactions of
coumarin-3-(4-aminosulfonyl)carbanilide derivatives
with reactive methylene compounds

AUTHOR(S): El-Saghier, Ahmed M. M.; Al-Afaleq, El-Jazii

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Sohag, Egypt

SOURCE: Phosphorus, Sulfur and Silicon and the Related
Elements (1998), 139, 67-75

CODEN: PSSLEC; ISSN: 1042-6507

PUBLISHER: Gordon & Breach Science Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:73957

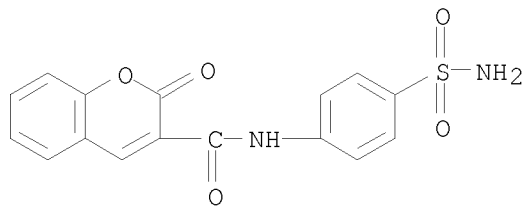
AB Coumarin- and benzo[f]coumarin-3-(4-aminosulfonyl)carbanilide derivs. (I)
react with malononitrile or Et cyanoacetate to afford
pyrido[3,4-c]-benzo-[f]coumarin derivs. These compds. were also prepared by
treatment of arylidenemalononitrile or arylidene cyano ester derivs. with
EtO₂CCH₂CONHC₆H₄SO₂NH₂-4. I were also allowed to react with a variety of
active methylenes having an α -cyano or α -keto group to give
pyrido[3,4-c]- and pyrido[3,4-c]-benzo[f]coumarin derivs. through a
nucleophilic addition and cyclization.

IT 111456-11-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactions of coumarin-3-(4-aminosulfonyl)carbanilide derivs. with
reactive methylene compds.)

RN 111456-11-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-2-oxo- (CA
INDEX NAME)OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 58 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:809990 CAPLUS

DOCUMENT NUMBER: 132:166094

TITLE: Synthesis and anti-inflammatory activity of
N-substituted 2-oxo-2H-1-benzopyran-3-carboxamides and
their 2-imino analogsAUTHOR(S): Bylov, Igor E.; Vasylyev, Maksym V.; Bilokin, Yaroslav
V.CORPORATE SOURCE: Department of Organic Chemistry, Ukrainian Academy of
Pharmacy, Kharkov, 310002, UkraineSOURCE: European Journal of Medicinal Chemistry (1999),
34(11), 997-1001

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER: Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The N-aryl-substituted 2-imino-2H-1-benzopyran-3-carboxamides and
2-oxo-2H-1-benzopyran-3-carboxamides were synthesized and evaluated for
their antiinflammatory activity in carrageenan-induced rat paw edema
assays and in HOAc-induced peritonitis tests in albino rats. The
resulting products are active antiinflammatory agents and their effects
were comparable to that of piroxicam as the reference compound. In the
consideration of the efficacy of the compds. in these assays,
2-imino/oxo-2H-1-benzopyran-3-carboxamides were further studied at graded
doses for their acute toxicity (ALD50) in albino mice and were essentially
nontoxic at the highest dose tested.

IT 73877-78-8P 111947-24-1P 258844-09-6P

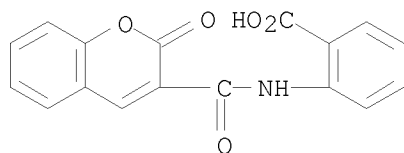
258844-10-9P 258844-11-0P 258844-12-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Preparation)

(synthesis and anti-inflammatory activity of N-substituted
2-oxo-2H-1-benzopyran-3-carboxamides and 2-imino analogs)

RN 73877-78-8 CAPLUS

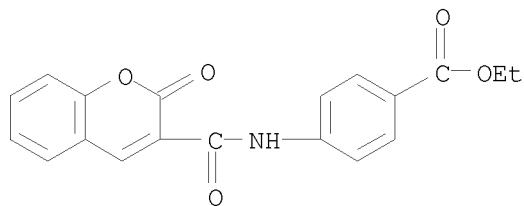
CN Benzoic acid, 2-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX
NAME)



RN 111947-24-1 CAPLUS

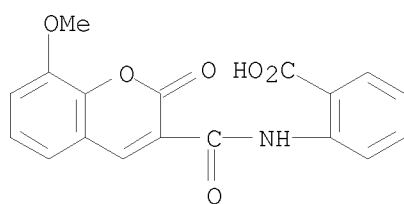
CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl
ester (CA INDEX NAME)

10/513699



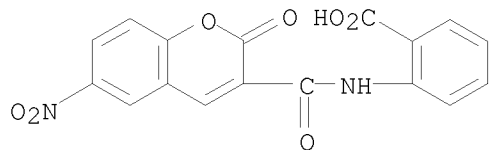
RN 258844-09-6 CAPLUS

CN Benzoic acid, 2-[[8-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-
(CA INDEX NAME)



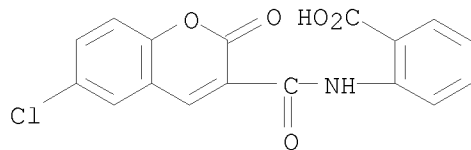
RN 258844-10-9 CAPLUS

CN Benzoic acid, 2-[[6-nitro-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-
(CA INDEX NAME)



RN 258844-11-0 CAPLUS

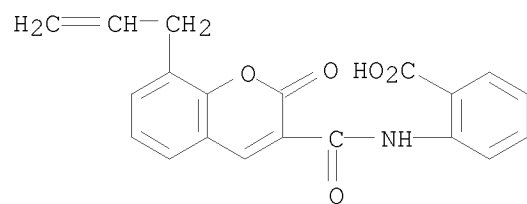
CN Benzoic acid, 2-[[6-chloro-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-
(CA INDEX NAME)



RN 258844-12-1 CAPLUS

CN Benzoic acid, 2-[[[2-oxo-8-(2-propen-1-yl)-2H-1-benzopyran-3-yl]carbonyl]amino]-
(CA INDEX NAME)

10/513699



OS.CITING REF COUNT:	16	THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)
REFERENCE COUNT:	22	THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 59 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:465414 CAPLUS

DOCUMENT NUMBER: 129:202830

ORIGINAL REFERENCE NO.: 129:41207a, 41210a

TITLE: Rearrangements of
2-imino-2H-1-benzopyran-3-carboxamides under action of
anthranilic acid as N-nucleophileAUTHOR(S): Bilokin, Yaroslav V.; Kovalenko, Sergey N.; Bylov,
Igor E.; Chernykh, Valentin P.CORPORATE SOURCE: Dep. Organic Chemistry, Ukrainian Academy Pharmacy,
Kharkov, 310002, UkraineSOURCE: Heterocyclic Communications (1998), 4(3), 257-260
CODEN: HCOMEX; ISSN: 0793-0283

PUBLISHER: Freund Publishing House Ltd.

DOCUMENT TYPE: Journal

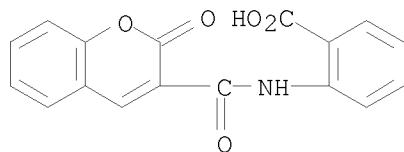
LANGUAGE: English

AB The rearrangement of 2-imino-2H-1-benzopyran-3-carboxamides under action
of anthranilic acid as N-nucleophile was revealed. Starting from readily
available 2-imino-2H-1-benzopyran-3-carboxamides and anthranilic acid and
depending on reaction conditions, 2-(2-oxo-2H-1-benzopyran-2-yl)-3H-
quinazolin-4-ones and 2-oxo-2H-1-benzopyran-3-(N-2-
carboxyphenyl)carboxamides were prepared via the rearrangement. Possible
mechanisms of these rearrangement were discussed.

IT 73877-78-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)(rearrangement of (imino)benzopyrancarboxamides in presence of
anthranilic acid)

RN 73877-78-8 CAPLUS

CN Benzoic acid, 2-[[2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX
NAME)OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS
RECORD (12 CITINGS)REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 60 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:328195 CAPLUS

DOCUMENT NUMBER: 125:323

ORIGINAL REFERENCE NO.: 125:55a,58a

TITLE: Esters and Amides of
6-(Chloromethyl)-2-oxo-2H-1-benzopyran-3-carboxylic
Acid as Inhibitors of α -Chymotrypsin:Significance of the "Aromatic" Nature of the Novel
Ester-Type Coumarin for Strong Inhibitory Activity
AUTHOR(S): Pochet, Lionel; Doucet, Caroline; Schynts, Marc;
Thierry, Nicole; Boggetto, Nicole; Pirotte, Bernard;
Jiang, Kai Y.; Masereel, Bernard; de Tullio, Pascal;
et al.CORPORATE SOURCE: Laboratoire de Chimie Pharmaceutique, Universite de
Liege, Liege, B-4000, Belg.SOURCE: Journal of Medicinal Chemistry (1996), 39(13),
2579-2585

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

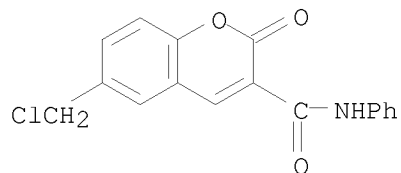
LANGUAGE: English

AB A series of esters and amides of 6-(chloromethyl)-2-oxo-2H-1-benzopyran-3-carboxylic acid were synthesized and evaluated in vitro for their inhibitory activity toward bovine α -chymotrypsin and human leukocyte elastase. Both series behaved as time-dependent inhibitors of α -chymotrypsin, but ester-type coumarins were clearly more efficient than the corresponding amides in inactivating the serine proteinase. The best inactivation was observed with "aromatic" esters, in particular with meta-substituted Ph esters such as m-chlorophenyl 6-(chloromethyl)-2-oxo-2H-1-benzopyran-3-carboxylate, which appears to be one of the most powerful inactivators of α -chymotrypsin yet reported (kinact/KI = 760 000 M⁻¹ s⁻¹ at pH 7.5 and 25°). Usually, the coumarin derivs. failed to inhibit significantly human leukocyte elastase. As a result, the reported series of aromatic coumarinic esters behaves as a new chemical family of selective α -chymotrypsin inhibitors.

IT 176770-48-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of esters and amides of
6-(chloromethyl)-2-oxo-2H-1-benzopyran-3-carboxylic acid as inhibitors
of α -chymotrypsin)

RN 176770-48-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-(chloromethyl)-2-oxo-N-phenyl- (CA INDEX
NAME)

OS.CITING REF COUNT: 62 THERE ARE 62 CAPLUS RECORDS THAT CITE THIS
RECORD (63 CITINGS)

10/513699

<12/04/2007>

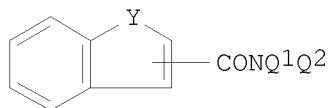
Erich Leese

10/513699

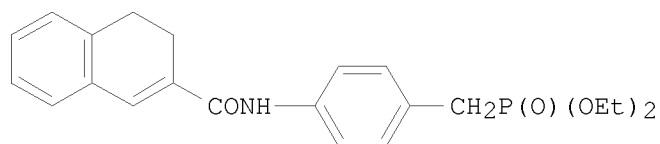
L4 ANSWER 61 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:228504 CAPLUS
DOCUMENT NUMBER: 124:261362
ORIGINAL REFERENCE NO.: 124:48435a,48438a
TITLE: Preparation and osteogenesis stimulation by phosphonic acid compounds
INVENTOR(S): Sohda, Takashi; Taketomi, Shigehisa; Oda, Tsuneo
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9601267	A1	19960118	WO 1995-JP1328	19950703
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2191980	A1	19960118	CA 1995-2191980	19950703
AU 9528084	A	19960125	AU 1995-28084	19950703
EP 769015	A1	19970423	EP 1995-923575	19950703
EP 769015	B1	20010314		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN 1151744	A	19970611	CN 1995-193981	19950703
AT 199721	T	20010315	AT 1995-923575	19950703
JP 08073476	A	19960319	JP 1995-168892	19950704
US 5716944	A	19980210	US 1995-501022	19950811
PRIORITY APPLN. INFO.:			JP 1994-152482	A 19940704
			WO 1995-JP1328	W 19950703
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):			CASREACT 124:261362; MARPAT 124:261362	
GI				



I



II

AB The present invention relates to I or a salt thereof, wherein the

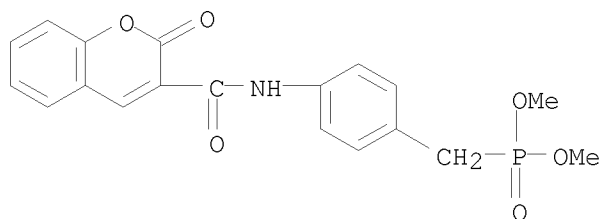
left-hand ring is a benzene ring that may be substituted; Y is a divalent group as a constituent member of the right-hand ring forming a 5- to 8-membered ring; Q1 is $-X-P(O)(OR1)(OR2)$ wherein X is a bond or a divalent group; R1 and R2, identical or different, are H or a lower alkyl, or may be combined together to form a ring; Q2 is H, a hydrocarbon group that may be substituted or a heterocyclic group that may be substituted; and $-CONQ1Q2$ is connected to an olefinic C of the right-hand ring. For example, II was prepared in 45% yield from 7-cyclohexyl-3,4-dihydronaphthalene-2-carboxylic acid and di-Et phosphorocyanidate in DMF followed by successive addns. of di-Et 4-aminobenzylphosphonate and Et₃N. The compds. are useful as prophylactic and therapeutic agents of various metabolic bone diseases such as osteoporosis.

IT 175393-66-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as osteogenesis promoter)

RN 175393-66-5 CAPLUS

CN Phosphonic acid, [[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]phenyl]methyl]-, dimethyl ester (9CI) (CA INDEX NAME)

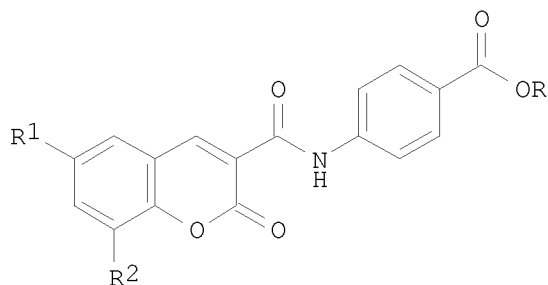


OS.CITING REF COUNT:	12	THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)
REFERENCE COUNT:	3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 62 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

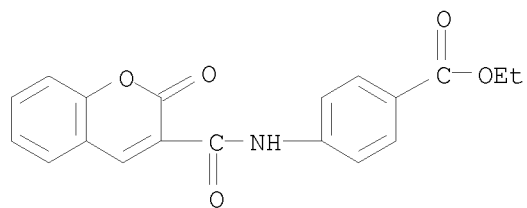
ACCESSION NUMBER: 1995:416400 CAPLUS
 DOCUMENT NUMBER: 122:187399
 ORIGINAL REFERENCE NO.: 122:34327a,34330a
 TITLE: Preparation of
 N-(4-alkoxycarbonylphenyl)coumarin-3-carboxamides as
 UV absorbers
 INVENTOR(S): Ogiso, Akira; Misawa, Tsutami; Imai, Rihoko; Itoh,
 Hisato
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Eur. Pat. Appl., 18 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 635504	A1	19950125	EP 1994-111307	19940720
R: DE, FR, GB				
JP 07082262	A	19950328	JP 1994-155539	19940707
JP 3556970	B2	20040825		
US 5482986	A	19960109	US 1994-272829	19940711
PRIORITY APPLN. INFO.:			JP 1993-181098	A 19930722
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):		MARPAT 122:187399		
GI				



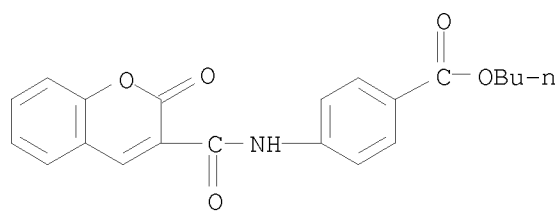
AB Title compds. (I; R = H, C1-8 alkyl, alkoxyalkyl; R1,R2 = H or halo) were prepared for use in thermoplastic resins. Thus, coumarin-3-carboxylic acid was amidated by 4-(H2N)C6H4CO3Et to give I (R = Et, R1 = R2 = H). The latter, at 100 parts in 10,000 parts polyethylene terephthalate, gave transmittance of 0.0 and 1.1% at 370 and 380nm, resp., in a 102μm sheet.
 IT 111947-24-1P 161559-21-3P
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (preparation of N-(4-alkoxycarbonylphenyl)coumarin-3-carboxamides as UV absorbers)
 RN 111947-24-1 CAPLUS
 CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]-, ethyl ester (CA INDEX NAME)

10/513699



RN 161559-21-3 CAPLUS

CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, butyl ester (CA INDEX NAME)



10/513699

L4 ANSWER 63 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:557526 CAPLUS

DOCUMENT NUMBER: 121:157526

ORIGINAL REFERENCE NO.: 121:28520h,28521a

TITLE: Preparation of benzopyranone and benzothiopyranone derivatives as UV-absorbents, thermoplastic resin compositions containing them, and moldings

INVENTOR(S): Ogiso, Akira; Misawa, Tsutayoshi; Imai, Rihoko; Ito, Naoto

PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 06145164	A	19940524	JP 1992-295045	19921104
PRIORITY APPLN. INFO.:			JP 1992-295045	19921104
OTHER SOURCE(S):	MARPAT	121:157526		

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. (I; Y1 = O, S; X1 - X4 = H, halo, NO2, OH, AcO; Q1 - Q5 = H, halo, NO2, cyano; excluding the case where all Q1 - Q5 = H; Q6 - Q15 = H, halo, NO2, cyano) and (II; Y1, X1 - X4 = same as above; Q6 - Q15 = H, halo, NO2, cyano), having excellent thermal stability with little sublimation, are prepared A thermoplastic resin composition or a thermoplastic molding thereof contains ≥ 0.001 weight part UV-absorbent I or II. The thermoplastic resin is preferably a polyester. Thus, 340 part coumarin-3-carboxylic acid was dissolved in 3,600 part N,N-dimethylimidazolidinone at 25° and cooled to 5° followed by adding 215 part SOCl2 at $\leq 15^\circ$ to give a solution containing coumarin-3-carbonyl chloride, to which was added 296 part p-nitroaniline and the resulting solution was heated at 140° for 3 h to give coumarin-3-carboxamide derivative (III). III (100 part) was dissolved in 10,000 polyethylene terephthalate melt at 280° and the resulting melt was extruded to give a sheet of 200 μm thickness which was subjected to fixed-width uniaxial extension to give a film of 108 μm thickness; this film blocked 100% UV light at 380nm and no coloration of the film was observed

IT 1846-99-7P 54396-25-7P 157309-57-4P

157309-58-5P

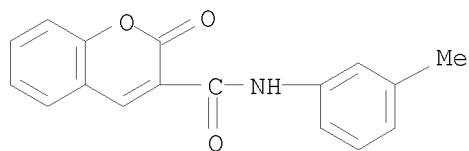
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as UV-absorber for thermoplastic resins)

RN 1846-99-7 CAPLUS

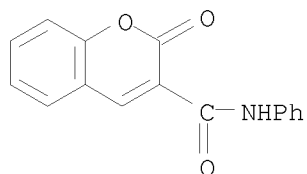
CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



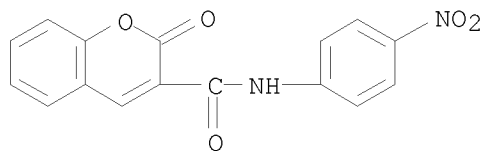
RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



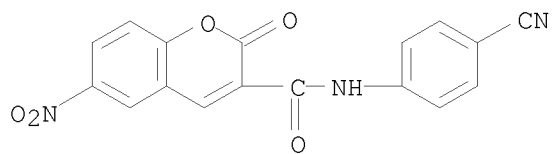
RN 157309-57-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 157309-58-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-cyanophenyl)-6-nitro-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 1

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

10/513699

L4 ANSWER 64 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:482963 CAPLUS

DOCUMENT NUMBER: 121:82963

ORIGINAL REFERENCE NO.: 121:14901a,14904a

TITLE: Reactions of benzopyran-2-one-3-carbonyl derivatives with nucleophilic reagents

AUTHOR(S): El-Agrody, A. M.; Selim, M. R.; Aly, F. M.; Abu-Shanab, F. A.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt

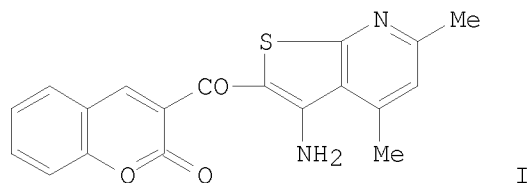
SOURCE: Pakistan Journal of Scientific and Industrial Research (1993), 36(5), 175-8

CODEN: PSIRAA; ISSN: 0030-9885

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



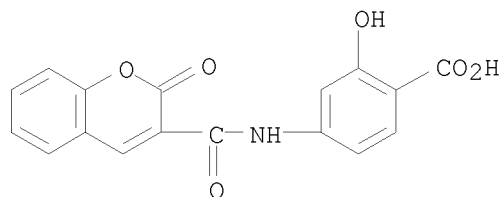
AB Several benzopyran-2-one-3-carboxamides have been prepared by the condensation of coumarin-3-carbonyl chloride with various nucleophilic reagents. The reaction of 3-carbethoxycoumarin with o-phenylenediamine and o-aminophenol gave 3-(benzimidazolyl)- and 3-(benzoxazolyl)coumarins. The reaction of 3-(bromoacetyl)coumarin with 3-cyano-4,6-dimethylpyridine-2-thiol in the presence of K₂CO₃ gave I.

IT 156172-93-9P 156172-94-0P 156172-95-1P
156173-05-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 156172-93-9 CAPLUS

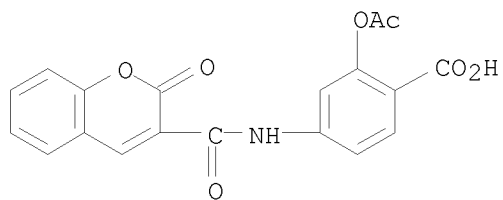
CN Benzoic acid, 2-hydroxy-4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-
(CA INDEX NAME)



RN 156172-94-0 CAPLUS

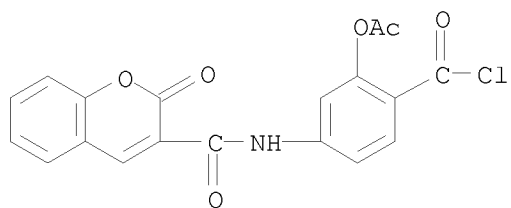
CN Benzoic acid, 2-(acetyloxy)-4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



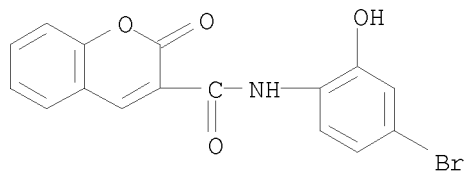
RN 156172-95-1 CAPLUS

CN Benzoyl chloride, 2-(acetyloxy)-4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 156173-05-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-2-hydroxyphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 2

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L4 ANSWER 65 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:289634 CAPLUS

DOCUMENT NUMBER: 120:289634

ORIGINAL REFERENCE NO.: 120:50767a,50770a

TITLE: Search for new antiallergic compounds in the series of coumarin derivatives and study of mechanisms of their action

AUTHOR(S): Saraf, A. S.; Simonyan, A. V.; Oganessian, E. T.

CORPORATE SOURCE: Pharm. Inst., Pyatigorsk, 357533, Russia

SOURCE: Eksperimental'naya i Klinicheskaya Farmakologiya (1993), 56(2), 47-50

CODEN: EKFAE9; ISSN: 0869-2092

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB The antiallergic effects of novel synthetic coumarin-3-carboxylic acid derivs. were studied in a rat model of passive cutaneous anaphylaxis. The most potent agent was found and tested for mechanisms of its specific pharmacol. action. Its capacity of suppressing immediate hypersensitivity in various animal species was demonstrated to be due to its concomitant action on the pathochem. and pathophysiol. stages of the allergic process.

IT 1847-05-8 54396-25-7 111947-24-1

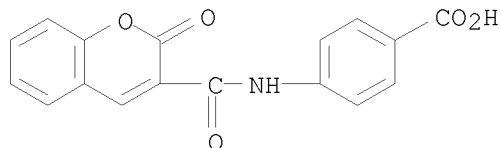
150231-88-2 150231-89-3

RL: BIOL (Biological study)

(allergy inhibition by and mechanism of action of)

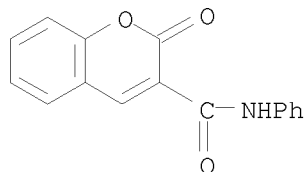
RN 1847-05-8 CAPLUS

CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

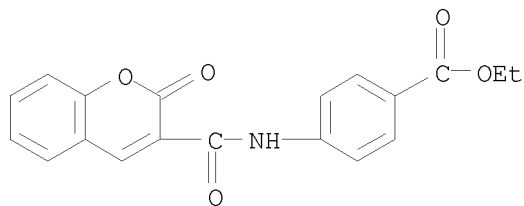
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



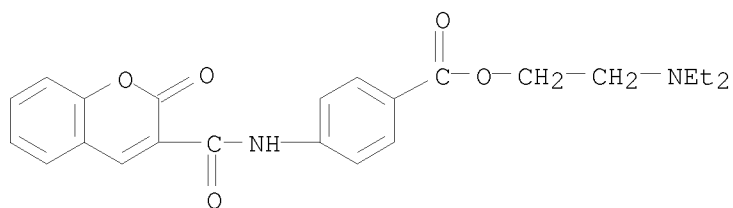
RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

10/513699

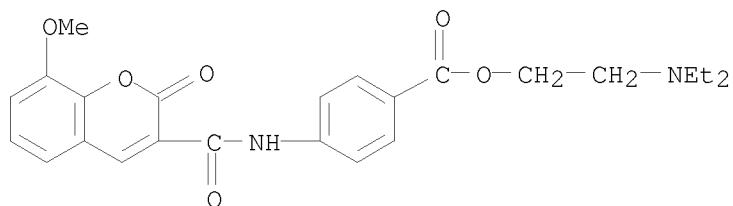


RN 150231-88-2 CAPLUS
CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 150231-89-3 CAPLUS
CN Benzoic acid, 4-[[[(8-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



● HCl

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

10/513699

L4 ANSWER 66 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:124164 CAPLUS

DOCUMENT NUMBER: 120:124164

ORIGINAL REFERENCE NO.: 120:21661a,21664a

TITLE: Electron topological study of the structure-antiallergic activity relationship in derivatives of chalcone, coumarin, and cinnamic acid
AUTHOR(S): Simonyan, A. V.; Vlasenko, S. P.; Dimoglo, A. S.
CORPORATE SOURCE: Pyatigorsk. Farm. Inst., Russia
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1993), 27(7), 29-32

CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB An interactive search method was employed to find activity fragments and examine structure-activity relationships among 35 derivs. of chalcone, coumarin, and cinnamic acid (passive skin anaphylaxis inhibitors). Conformational anal. and calcn. of electron structures were made and electron topol. matrixes were worked out. The matrixes were used to analyze the structure-activity relations. Characteristics associated with activity are discussed.

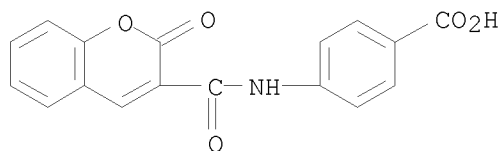
IT 1847-05-8 54396-25-7 111947-24-1
139964-78-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antiallergic activity of, structure in relation to)

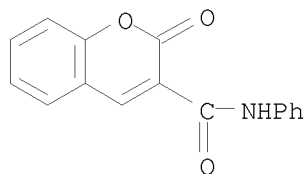
RN 1847-05-8 CAPLUS

CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

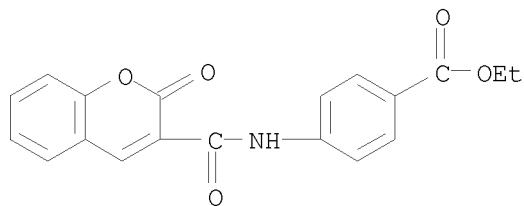
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



RN 111947-24-1 CAPLUS

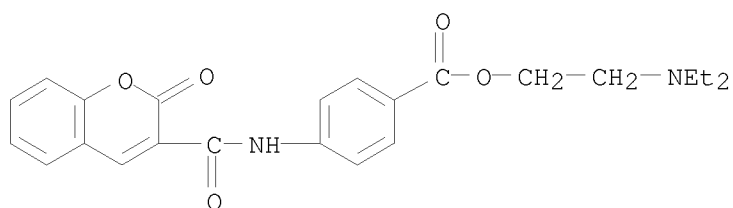
CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

10/513699



RN 139964-78-6 CAPLUS

CN Benzoic acid, 4-[[2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-,
2-(diethylamino)ethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

10/513699

L4 ANSWER 67 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:54421 CAPLUS

DOCUMENT NUMBER: 120:54421

ORIGINAL REFERENCE NO.: 120:9935a,9938a

TITLE: Synthesis and pharmacological activity of
2-oxo-(2H)-1-benzopyran-3-carboxamide derivatives

AUTHOR(S): Bonsignore, L.; Loy, G.; Secci, D.; Calignano, A.

CORPORATE SOURCE: Dip. Farm. Chim. Technol., Univ. Cagliari, Cagliari,
I-09124, Italy

SOURCE: European Journal of Medicinal Chemistry (1993), 28(6),
517-20

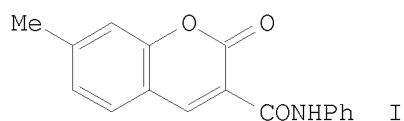
CODEN: EJMCA5; ISSN: 0223-5234

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 120:54421

GI



AB Continuing the authors' research on the synthesis and biol. activity of heterocyclic compds. synthesized by carbon suboxide, the authors prepared and screened some 2-oxo-(2H)-1-benzopyran-3-carboxamide derivs., e.g., I. Test data for the diuretic, analgesic and myorelaxant activity are given and discussed.

IT 1846-94-2P 1847-00-3P 38485-81-3P

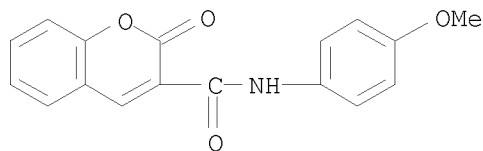
54396-25-7P 146070-40-8P 152278-12-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation, diuretic, analgesic and myorelaxant activity of)

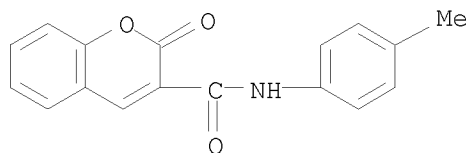
RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

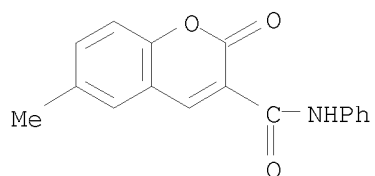
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



10/513699

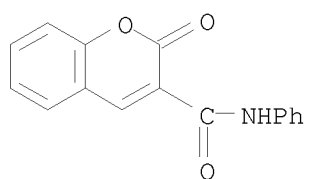
RN 38485-81-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-2-oxo-N-phenyl- (CA INDEX NAME)



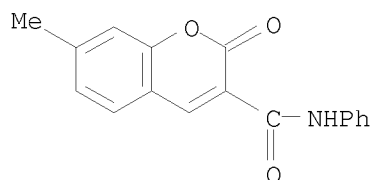
RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



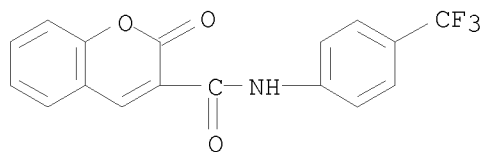
RN 146070-40-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methyl-2-oxo-N-phenyl- (CA INDEX NAME)



RN 152278-12-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 69 THERE ARE 69 CAPLUS RECORDS THAT CITE THIS RECORD (69 CITINGS)

L4 ANSWER 68 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1993:625895 CAPLUS

DOCUMENT NUMBER: 119:225895

ORIGINAL REFERENCE NO.: 119:40323a, 40326a

TITLE: Synthesis of some benzoxazin-4-one derivatives and

study of their reaction with nucleophilic reagents

AUTHOR(S): Selim, M. R.; Aly, F. M.; Bendair, A. H.; Abu-Shanab, F. A.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt

SOURCE: Journal of the Indian Chemical Society (1992), 69(10), 688-90

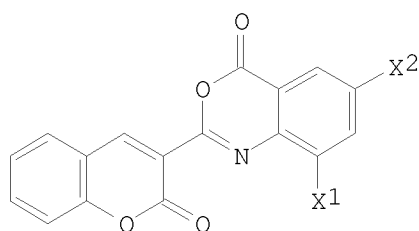
CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

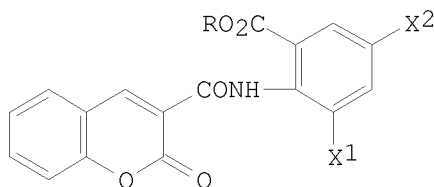
LANGUAGE: English

OTHER SOURCE(S): CASREACT 119:225895

GI



I



II

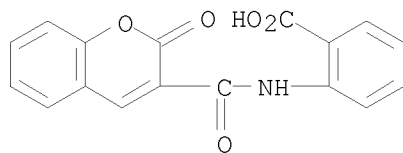
AB Treating 3-coumarincarbonyl chloride with anthranilic acids gave the amides, which were cyclized with Ac₂O to the coumarinylbenzoxazin-4-ones I (X₁, X₂ = H, Br). Aminolysis and alcoholysis reactions of I were investigated. E.g., alcoholysis of I in boiling alc. gave II (same X₁, X₂; R = Me, Et, Bu).

IT 73877-78-8P 150711-82-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 73877-78-8 CAPLUS

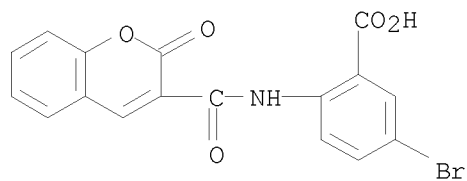
CN Benzoic acid, 2-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 150711-82-3 CAPLUS

CN Benzoic acid, 5-bromo-2-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)

10/513699



OS.CITING REF COUNT: 11

THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
RECORD (12 CITINGS)

10/513699

L4 ANSWER 69 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1993:577137 CAPLUS

DOCUMENT NUMBER: 119:177137

ORIGINAL REFERENCE NO.: 119:31571a,31574a

TITLE: Coumarin derivatives for quantitative determination of peroxidation-active substances by chemiluminescence analysis

INVENTOR(S): Aoyama, Norihito; Takenaka, Hideki; Miike, Akira

PATENT ASSIGNEE(S): Kyowa Medex Co., Ltd., Japan

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9315219	A1	19930805	WO 1993-JP128	19930203
W: JP, US				
JP 2980681	B2	19991122	JP 1993-513100	19930203
US 5851785	A	19981222	US 1994-288738	19940816
PRIORITY APPLN. INFO.:			JP 1992-19043	A 19920204
			WO 1993-JP128	W 19930203
			US 1993-122582	B1 19931001

OTHER SOURCE(S): MARPAT 119:177137

AB Chemiluminescence assays using coumarin derivs. that are operable even in the presence of proteins and an acidic environment are disclosed. The coumarin derivs. react with H2O2 in the presence of peroxidative substances and therefore the method can be used for the determination of the coumarin derivs., H2O2, and the peroxidative substances. The derivs. are especially useful for detecting peroxidase, e.g. peroxidase-labeled antigen or antibody, for immunoassay. Thus, several coumarin derivs. were used for quant. determination of carcinoembryonic antigen (CEA) using the glucose oxidase-labeled anti-CEA antibody. Anti- α -fetoprotein antibody labeled with a coumarin derivative was determined in the presence of H2O2. The lack of protein interference by this method was also demonstrated.

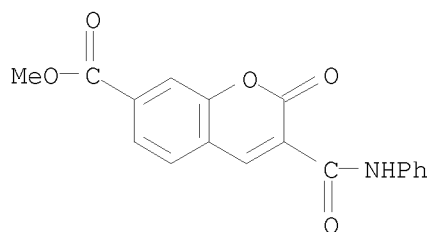
IT 150460-82-5

RL: ANST (Analytical study)

(coumarin derivative, for determining peroxidn. active substance or hydrogen peroxide)

RN 150460-82-5 CAPLUS

CN 2H-1-Benzopyran-7-carboxylic acid, 2-oxo-3-[(phenylamino)carbonyl]-, methyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

<12/04/2007>

Erich Leese

10/513699

(4 CITINGS)

<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 70 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1993:559802 CAPLUS

DOCUMENT NUMBER: 119:159802

ORIGINAL REFERENCE NO.: 119:28617a,28620a

TITLE: Synthesis and antiallergic activity in the series of cinnamic acid derivatives

AUTHOR(S): Saraf, A. S.; Simonyan, A. V.

CORPORATE SOURCE: Pyatigorsk. Farm. Inst., Russia

SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1992), 26(7-8), 45-8

CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

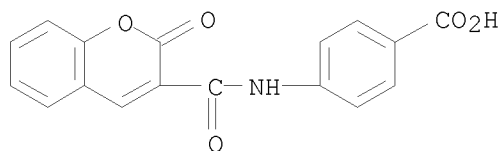
AB The paper provides the rationale for the antiallergic activity of cinnamic acid derivs. and coumarin. There has been prediction and subsequent goal-oriented synthesis of new series of cinnamic acid derivs. The mechanisms of their structure-antiallergic activity relationships have been found. It is suggested that this type of the activity shown by coumarins is due to their potential conversion to cinnamic acids in the body as a result of decyclization.

IT 1847-05-8P 54396-25-7P 111947-24-1P
139964-78-6P 139964-79-7P 150231-88-2P
150231-89-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as allergy inhibitor)

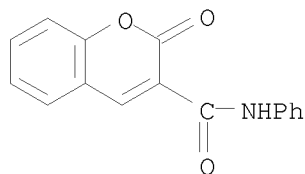
RN 1847-05-8 CAPLUS

CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

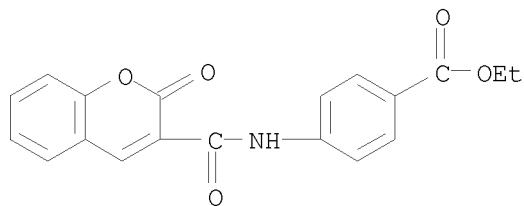
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



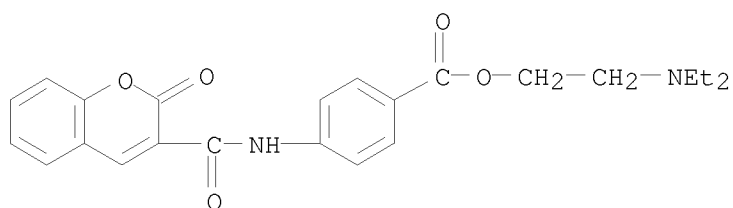
RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

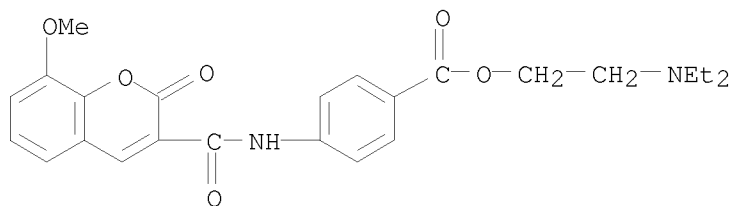
10/513699



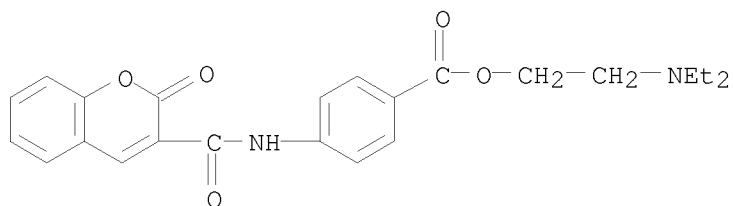
RN 139964-78-6 CAPLUS
CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester (CA INDEX NAME)



RN 139964-79-7 CAPLUS
CN Benzoic acid, 4-[[[(8-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester (CA INDEX NAME)



RN 150231-88-2 CAPLUS
CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



● HCl

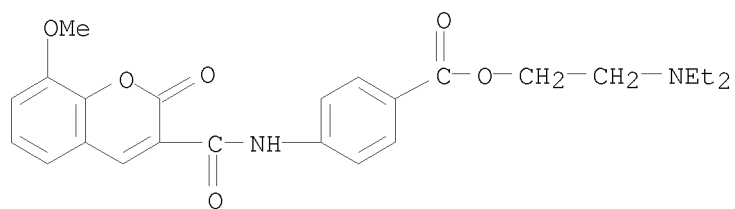
RN 150231-89-3 CAPLUS

<12/04/2007>

Erich Leese

10/513699

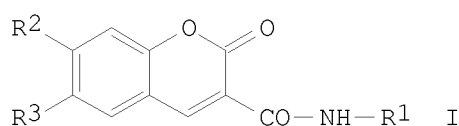
CN Benzoic acid, 4-[[(8-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



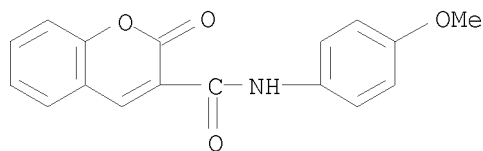
● HCl

10/513699

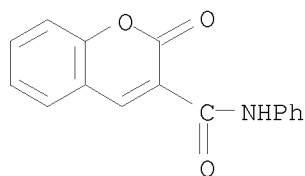
L4 ANSWER 71 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:417367 CAPLUS
DOCUMENT NUMBER: 119:17367
ORIGINAL REFERENCE NO.: 119:3117a,3120a
TITLE: Influence of some instrumental parameters on ionizing
conditions in an ion trap
AUTHOR(S): Catinella, S.; Traldi, P.; Celon, E.
CORPORATE SOURCE: CNR, Padova, I-35020, Italy
SOURCE: Rapid Communications in Mass Spectrometry (1993),
7(4), 315-17
CODEN: RCMSEF; ISSN: 0951-4198
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB A study on the influence of different instrumental parameters in the production of M+. ions was undertaken. The authors studied the variation of the abundance of M+. ions of R1 = C6H5, R2 = H; R1 = C6H5, R2 = CH3, R3 = H; R1 = C7H7O, R2 = R3 = H; by varying I the ionizing time, in the presence of He buffer gas (at a typical pressure of 1×10^{-4} Torr), introducing samples of comparable size. When He is present, the ionizing time has practically no influence on the mol. ion abundance of the 3 compds. under study.
IT 1846-94-2P 54396-25-7P 146070-40-8P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, instrumental parameter influence on, in ion trap of mass spectrometer)
RN 1846-94-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



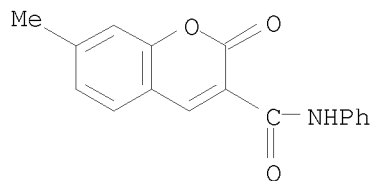
RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



10/513699

RN 146070-40-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methyl-2-oxo-N-phenyl- (CA INDEX NAME)



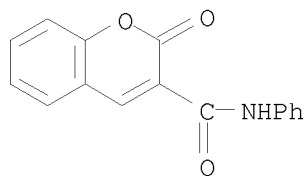
IT 148088-04-4 148088-05-5 148088-06-6

RL: PRP (Properties)

(radical cation formation from, instrumental parameter influence on, in ion trap of mass spectrometer)

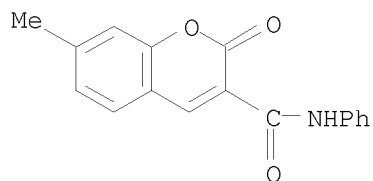
RN 148088-04-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl-, radical ion(1+) (9CI) (CA INDEX NAME)



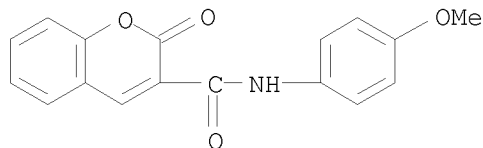
RN 148088-05-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methyl-2-oxo-N-phenyl-, radical ion(1+) (9CI) (CA INDEX NAME)



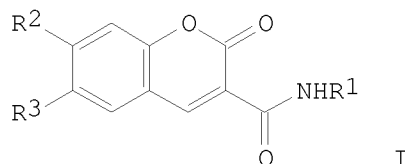
RN 148088-06-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo-, radical ion(1+) (9CI) (CA INDEX NAME)



10/513699

L4 ANSWER 72 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:147351 CAPLUS
DOCUMENT NUMBER: 118:147351
ORIGINAL REFERENCE NO.: 118:25331a,25334a
TITLE: Comparison of ion trap and sector instruments in the
study of fragmentation patterns of coumarins
AUTHOR(S): Podda, G.; Bonsignore, L.; Loy, G.; Catinella, S.;
Traldi, P.
CORPORATE SOURCE: Dip. Farm. Chim. Tecnol., Univ. Cagliari, Cagliari,
09100, Italy
SOURCE: Organic Mass Spectrometry (1992), 27(11), 1220-4
CODEN: ORMSBG; ISSN: 0030-493X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:147351
GI



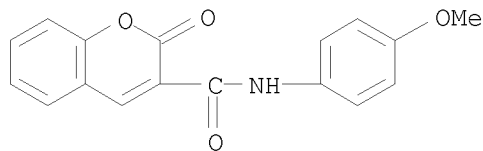
AB The mass spectra of a series of differently substituted coumarins I (R₁ = Ph, R₂ = H, Me, Cl, R₃ = H; R₁ = Ph, R₂ = H, R₃ = Me; R₁ = PhCH₂, 4-MeC₆H₄, 4-MeOC₆H₄, 4-CF₃C₆H₄, Me₂CH, R₂ = R₃ = H) were obtained by high- and low-energy collision expts. The results obtained by the two techniques show peculiar differences, mainly in the presence, under ion trap conditions, of a high relative abundance of M⁺•. The results support the validity of the ion trap technique basic studies of mass spectrometry.

IT 1846-94-2P 38485-81-3P 54396-25-7P
146070-40-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and mass spectral fragmentation patterns of)

RN 1846-94-2 CAPLUS

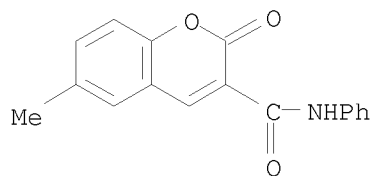
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-81-3 CAPLUS

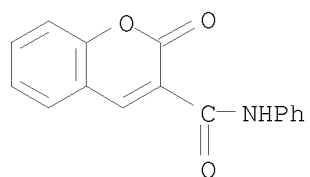
CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



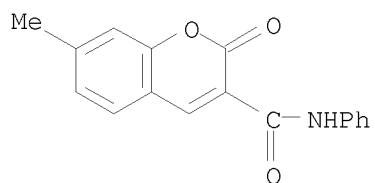
RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



RN 146070-40-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methyl-2-oxo-N-phenyl- (CA INDEX NAME)

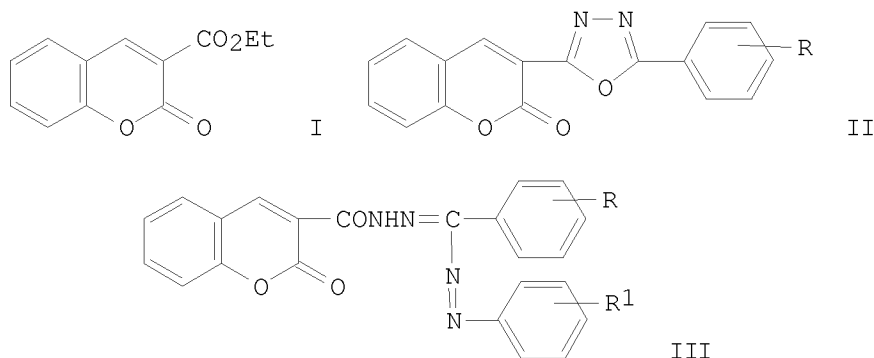


OS.CITING REF COUNT: 5

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

L4 ANSWER 73 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:651198 CAPLUS
 DOCUMENT NUMBER: 117:251198
 ORIGINAL REFERENCE NO.: 117:43487a, 43490a
 TITLE: Coumarin congeners as antidepressants
 AUTHOR(S): Singh, V.; Srivastava, V. K.; Palit, G.; Shanker, K.
 CORPORATE SOURCE: Dep. Pharmacol. Ther., King George's Med. Coll.,
 Lucknow, India
 SOURCE: Arzneimittel-Forschung (1992), 42(8), 993-6
 CODEN: ARZNAD; ISSN: 0004-4172
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



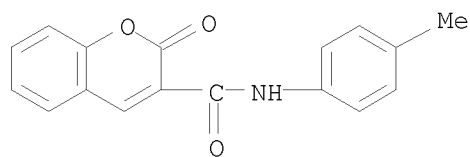
AB 3-(Ethoxycarbonyl)coumarin (I) was treated with $\text{N}_2\text{H}_4 \cdot \text{H}_2\text{O}$ to give the corresponding hydrazide which was condensed with $\text{RC}_6\text{H}_4\text{CHO}$ [R = H; 4-OH, 3-OMe; 3,4-(MeO)₂] to give their hydrazones. The latter underwent cyclization with FeCl_3 to give oxadiazoles II (R as above) and coupling with aryl diazonium chlorides to give coumarin derivs. III (R as above, R₁ = 3-, 4-Cl, 3-, 4-Me). Addnl. obtained were anilides IV (R as above). II-IV were tested for their antidepressant activity and III [R = 4-OH, 3-OMe, R₁ = 3-, 4-Cl; R = 3,4-(MeO)₂, R₁ = 4-Cl] had greater activity than imipramine with less toxicity.

IT 1847-00-3P 54396-25-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and antidepressant activity of)

RN 1847-00-3 CAPLUS

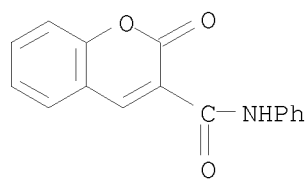
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS
RECORD (13 CITINGS)

10/513699

L4 ANSWER 74 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:550840 CAPLUS

DOCUMENT NUMBER: 117:150840

ORIGINAL REFERENCE NO.: 117:26125a,26128a

TITLE: Reactions of 3-carboethoxy-6-bromo and -6,8-dibromo coumarins with highly biologically active amino compounds

AUTHOR(S): Selim, M. R.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt

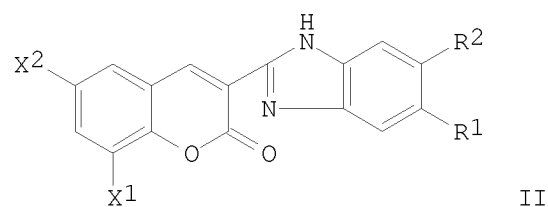
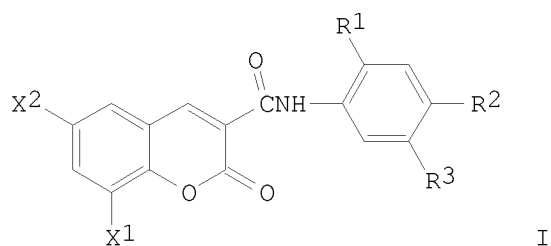
SOURCE: Scientist of Physical Sciences (1992), 4(1), 34-8

CODEN: SPSCEV; ISSN: 0970-9150

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Condensation of 3-carboethoxy-6-bromo- and -6,8-dibromocoumarins with aniline derivs. is reported. Condensation products, e.g., I (X1 = X2 = Br, R1 = R2 = Cl, R3 = H) and cyclocondensation products, e.g., II (X1 = H, X2 = Br, R1 = R2 = H) are formed in 65-80% yield.

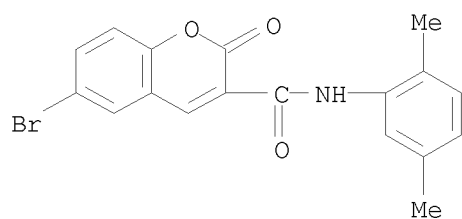
IT 5188-55-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 5188-55-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(2,5-dimethylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



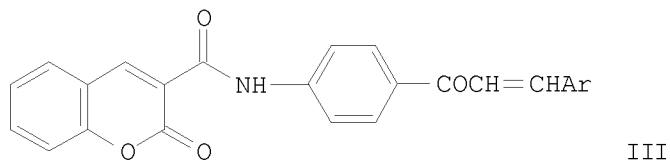
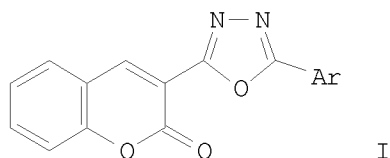
OS.CITING REF COUNT:

1

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L4 ANSWER 75 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:511529 CAPLUS
 DOCUMENT NUMBER: 117:111529
 ORIGINAL REFERENCE NO.: 117:19463a,19466a
 TITLE: Synthesis of certain novel 3-substituted coumarins
 AUTHOR(S): Badran, M. M.; El-Gendy, A. A.; Soliman, L. N.;
 El-Assi, H. R.
 CORPORATE SOURCE: Fac. Pharm., Cairo Univ., Cairo, Egypt
 SOURCE: Bulletin of the Faculty of Pharmacy (Cairo University)
 (1990), 28(2), 39-42
 CODEN: BFPHA8; ISSN: 0575-1373
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 117:111529
 GI



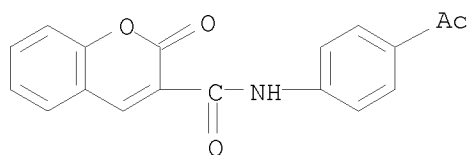
AB The synthesis of a series of 3-(1,3,4-oxadiazolyl)coumarins I [Ar = Ph, 2-ClC₆H₄, 4-ClC₆H₄, 3-O₂NC₆H₄, 4-O₂NC₆H₄, 3,5-(O₂N)₂C₆H₃, 4-AcNHC₆H₄, 3-pyridyl, 4-pyridyl, 2-HOC₆H₄, 3-AcOC₆H₄] is described. Treatment of 3-carbethoxycoumarin (II) with several acid hydrazides afforded the corresponding acyl coumarin carboxhydrazides which undergo cyclization in presence of POCl₃ or Ac₂O to give I. Addnl., condensation of II with p-aminoacetophenone gave the corresponding intermediate which reacted with a number of aromatic aldehydes to yield the chalcone analogs III [Ar = Ph, 4-ClC₆H₄, 3-O₂NH₆H₄, 2-MeOC₆H₄, 2,4-(MeO)₂C₆H₃].

IT 142818-76-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and condensation reaction of, with aromatic aldehydes)

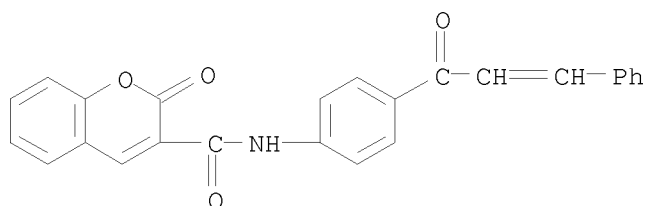
RN 142818-76-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-acetylphenyl)-2-oxo- (CA INDEX NAME)

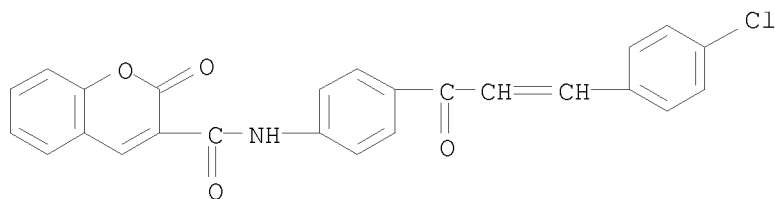


10/513699

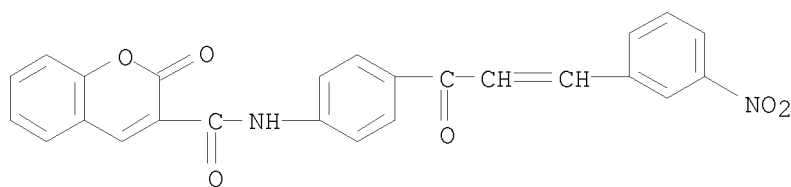
IT 142818-84-6P 142818-85-7P 142818-86-8P
142818-87-9P 142818-88-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 142818-84-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[4-(1-oxo-3-phenyl-2-propen-1-yl)phenyl]- (CA INDEX NAME)



RN 142818-85-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[3-(4-chlorophenyl)-1-oxo-2-propen-1-yl]phenyl]-2-oxo- (CA INDEX NAME)

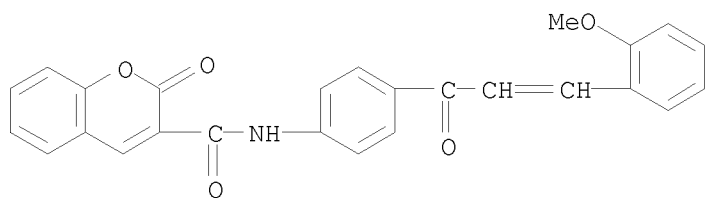


RN 142818-86-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[3-(3-nitrophenyl)-1-oxo-2-propen-1-yl]phenyl]-2-oxo- (CA INDEX NAME)



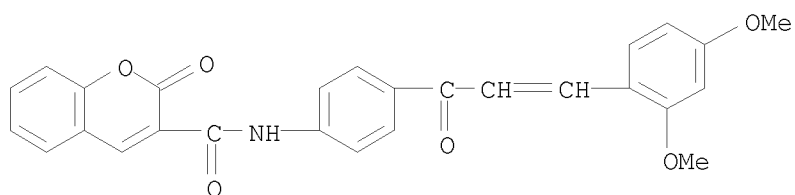
RN 142818-87-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[3-(2-methoxyphenyl)-1-oxo-2-propen-1-yl]phenyl]-2-oxo- (CA INDEX NAME)

10/513699



RN 142818-88-0 CAPLUS

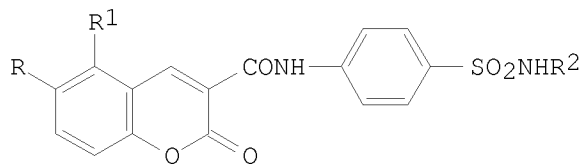
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[3-(2,4-dimethoxyphenyl)-1-oxo-2-propen-1-yl]phenyl]-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

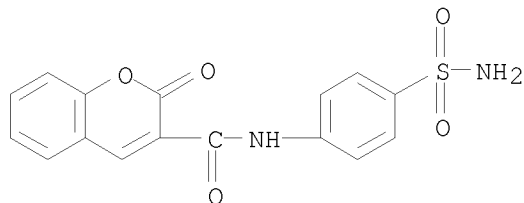
L4 ANSWER 76 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:255441 CAPLUS
 DOCUMENT NUMBER: 116:255441
 ORIGINAL REFERENCE NO.: 116:43307a, 43310a
 TITLE: Synthesis of some
 coumarin-3-(4-aminosulfonyl)carbanilide derivatives.
 Metabolic behavior and antimicrobial activity
 AUTHOR(S): Moustafa, M. A. A.
 CORPORATE SOURCE: Fac. Pharm., Univ. Mansoura, Mansoura, 35516, Egypt
 SOURCE: Scientia Pharmaceutica (1991), 59(3), 213-20
 CODEN: SCPHA4; ISSN: 0036-8709
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 116:255441
 GI



I

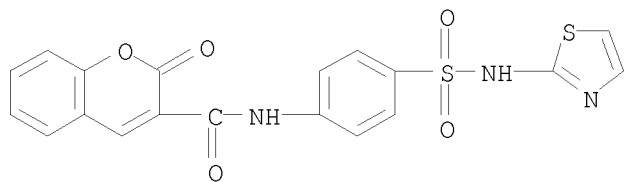
AB Title compds. I (R = H, Br, NO₂, R₁ = H; RR₁ = CH:CHCH:CH; R₂ = H, Ac, 2-pyrimidyl, 2-thiazolyl, 5-methyl-3-isoxazolyl) were prepared in 55-95% yields from EtO₂CCH₂CONHC₆H₄SO₂NHR₂-4 (II) by cyclocondensation with 5,6-RR₁C₆H₃CHO. II were prepared by treating CH₂(CO₂Et)₂ with H₂NC₆H₄SO₂NHR₂-4. IR and NMR spectroscopic data for all 25 compds. are given. A study of the metabolism of I (R = R₁ = H, R₂ = 2-pyrimidyl; RR₁ = CH:CHCH:CH, R₂ = 2-pyrimidyl) in rats following i.p. administration, revealed in vivo hydrolysis and acetylation to generate the acetylated sulfanilamide. I had bactericidal, but not fungicidal activity in a standardized disk test.
 IT 111456-11-2P 141502-02-5P 141502-03-6P
 141502-04-7P 141502-05-8P 141502-06-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and antimicrobial activity of)
 RN 111456-11-2 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 141502-02-5 CAPLUS

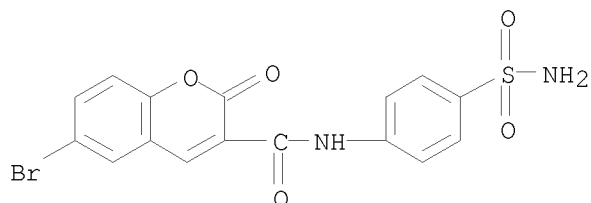
10/513699

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



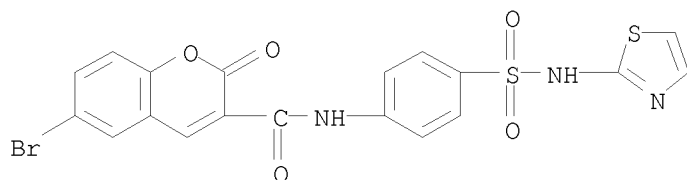
RN 141502-03-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-6-bromo-2-oxo- (CA INDEX NAME)



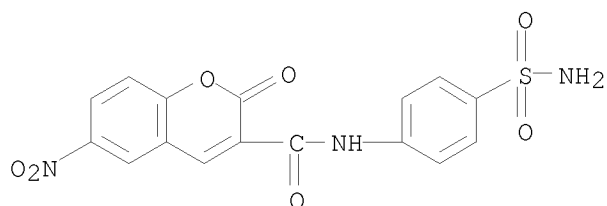
RN 141502-04-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 141502-05-8 CAPLUS

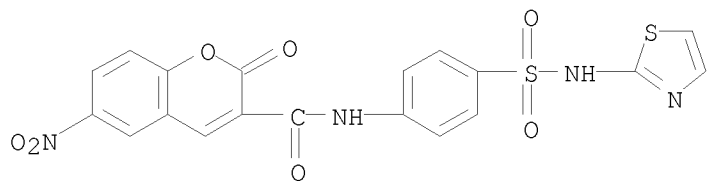
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-6-nitro-2-oxo- (CA INDEX NAME)



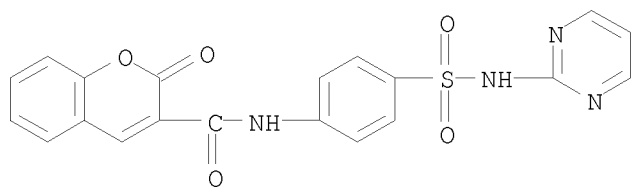
RN 141502-06-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-nitro-2-oxo-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]- (CA INDEX NAME)

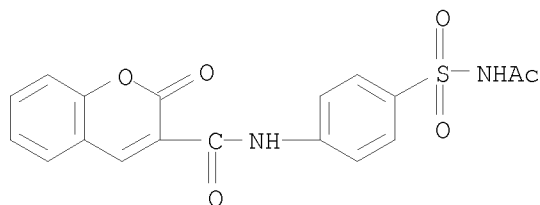
10/513699



IT 141502-01-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and in vivo metabolism of)
RN 141502-01-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[4-[(2-
pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)

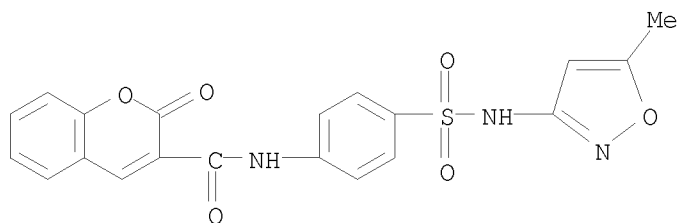


IT 141501-93-1P 141501-94-2P 141501-95-3P
141501-96-4P 141501-97-5P 141501-98-6P
141501-99-7P 141502-00-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 141501-93-1 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylamino)sulfonyl]phenyl]-2-oxo-
(CA INDEX NAME)



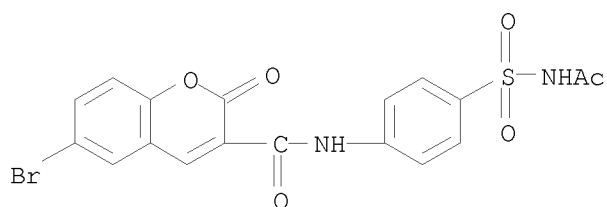
RN 141501-94-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5-methyl-3-
isoxazolyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)

10/513699



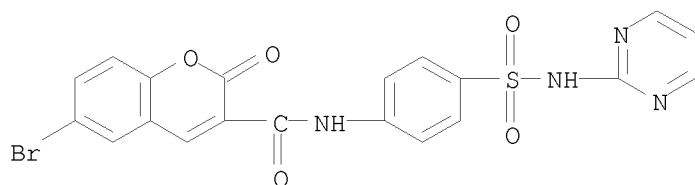
RN 141501-95-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylamino)sulfonyl]phenyl]-6-bromo-2-oxo- (CA INDEX NAME)



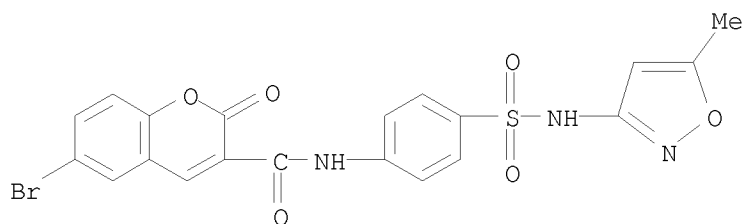
RN 141501-96-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 141501-97-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-[4-[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



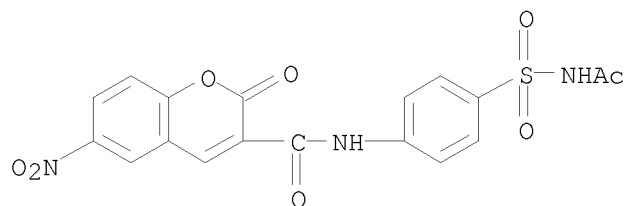
RN 141501-98-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(acetylamino)sulfonyl]phenyl]-6-nitro-2-oxo- (CA INDEX NAME)

<12/04/2007>

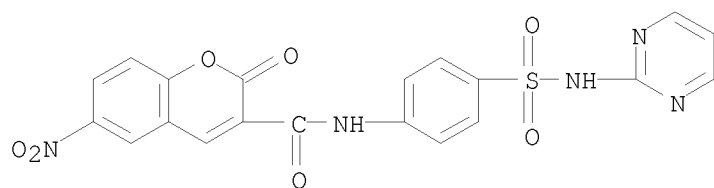
Erich Leese

10/513699



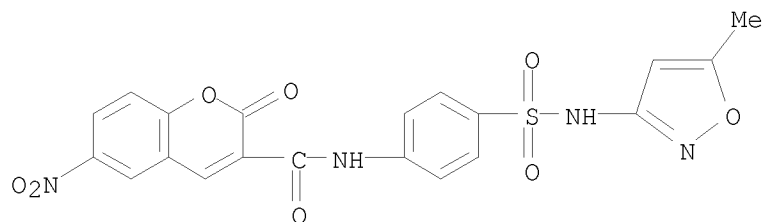
RN 141501-99-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-nitro-2-oxo-N-[4-[(2-pyrimidinylamino)sulfonyl]phenyl]- (CA INDEX NAME)



RN 141502-00-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-6-nitro-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

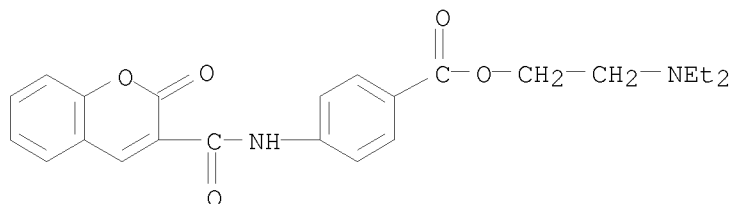
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Erich Leese

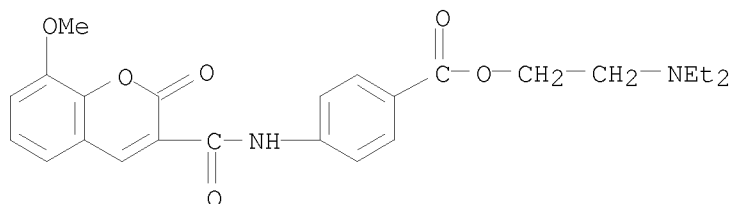
L4 ANSWER 77 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:166246 CAPLUS
 DOCUMENT NUMBER: 116:166246
 ORIGINAL REFERENCE NO.: 116:27883a, 27886a
 TITLE: Coumarin derivatives displaying antiallergenic activity
 INVENTOR(S): Oganesyan, E. T.; Gushchin, I. S.; Simonyan, A. V.; Saraf, A. S.; Popov, A. N.
 PATENT ASSIGNEE(S): Pyatigorsk Pharmaceutical Institute, USSR
 SOURCE: U.S.S.R. From: Otkrytiya, Izobret. 1991, (31), 253. CODEN: URXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 1466217	A1	19910823	SU 1987-4288068	19870721
PRIORITY APPLN. INFO.:			SU 1987-4288068	19870721
AB Substituted amide derivs. of coumarin display antiallergenic activity. Four derivs. are presented.				
IT 139964-78-6 139964-79-7				
RL: BIOL (Biological study) (allergy inhibitor)				
RN 139964-78-6 CAPLUS				
CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester (CA INDEX NAME)				

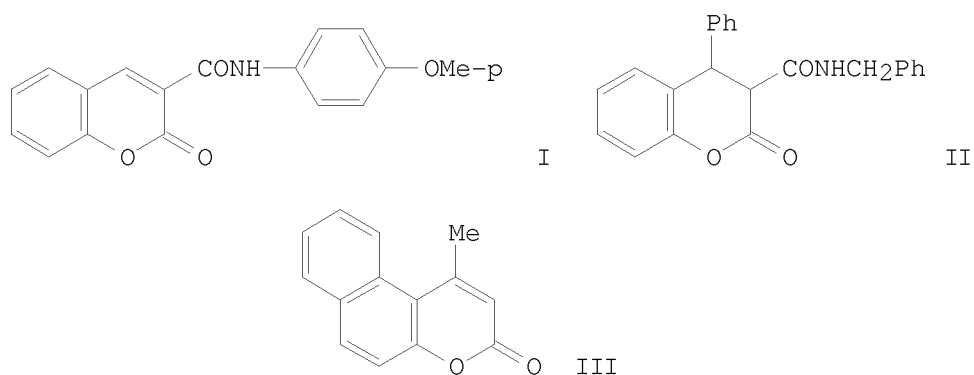


RN 139964-79-7 CAPLUS
 CN Benzoic acid, 4-[[(8-methoxy-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, 2-(diethylamino)ethyl ester (CA INDEX NAME)

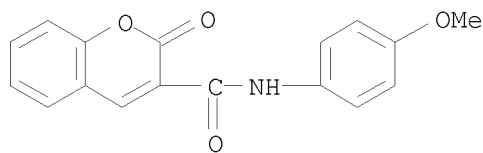


10/513699

L4 ANSWER 78 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1991:23278 CAPLUS
DOCUMENT NUMBER: 114:23278
ORIGINAL REFERENCE NO.: 114:4153a,4156a
TITLE: Mass spectrometric fragmentation of carbamido- and
benzocoumarin-derivatives
AUTHOR(S): El-Farargy, A. F.; El-Mobayed, M.; Bayoumy, B. E.
CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Egypt
SOURCE: Bulletin of the Faculty of Science, Assiut University
(1989), 18(1), 71-5
CODEN: BSAUDW; ISSN: 0366-4740
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

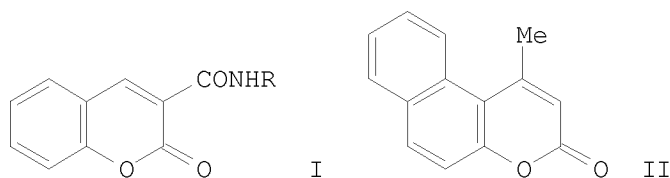


AB Mass spectral data were obtained for coumarin derivs. (I-III).
Fragmentation patterns were discussed.
IT 1846-94-2
RL: PRP (Properties)
(mass spectrum of)
RN 1846-94-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)

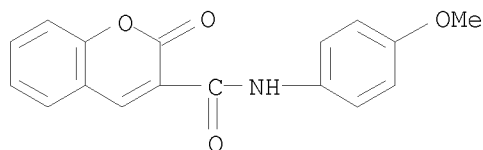


10/513699

L4 ANSWER 79 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1990:531940 CAPLUS
DOCUMENT NUMBER: 113:131940
ORIGINAL REFERENCE NO.: 113:22411a,22414a
TITLE: Some reactions of 3-(arylcarbamoyl)coumarins and
4-methyl-5,6-benzocoumarin
AUTHOR(S): El-Farargy, A. F.; Soliman, A. Y.; El-Mobayed, M.;
El-Esser, S.
CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Zagazig, Egypt
SOURCE: Egyptian Journal of Chemistry (1989), Volume Date
1987, 30(6), 497-505
CODEN: EGJCA3; ISSN: 0367-0422
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:131940
GI



AB The preparation of carbamoylcoumarins I (R = CH₂Ph, p-anisyl) and their reactions with active methylene compds., ketones, Grignard reagents, and aromatic amines were described. The preparation of 4-methyl-5,6-benzocoumarin (II) and its reactions with aromatic aldehydes were also studied.
IT 1846-94-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reactions of)
RN 1846-94-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 80 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1990:509300 CAPLUS
 DOCUMENT NUMBER: 113:109300
 ORIGINAL REFERENCE NO.: 113:18313a,18316a
 TITLE: Coumarins to inhibit reverse transcriptase in humans
 for treatment of human immunodeficiency virus
 infection
 INVENTOR(S): Reusser, Fritz; Tarpley, William G.; Dolak, Lester;
 Althaus, Irene W.
 PATENT ASSIGNEE(S): Upjohn Co., USA
 SOURCE: PCT Int. Appl., 11 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8907939	A2	19890908	WO 1989-US450	19890208
WO 8907939	A3	19891019		
W: AU, DK, FI, JP, KR, NO, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8940747	A	19890922	AU 1989-40747	19890208
EP 403535	A1	19901227	EP 1989-903438	19890208
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 03503635	T	19910815	JP 1989-503059	19890208
DK 9001956	A	19900816	DK 1990-1956	19900816
PRIORITY APPLN. INFO.:			US 1988-162553	A 19880301
			US 1988-190038	A2 19880504
			WO 1989-US450	A 19890208

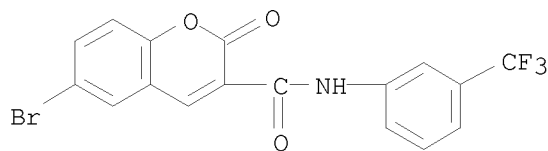
AB 6-Bromo-3-[(m-chlorophenyl)carbamoyl]coumarin,
 6-bromo-3-[(α,α,α -trifluoro-m-toluy)carbamoyl]coumarin,
 6-bromo-3-[(2,5-dichlorophenyl)carbamoyl]coumarin,
 [[bis(4-hydroxy-2-oxo-2H-1-benzopyran-3-yl)methyl]cyclopentadienyl]cyclopentadienyliron (I),
 3-cinnamoyl-4-hydroxycoumarin, hexachlorocoumarin, 7-acetoxycoumarin or
 [1-(2-oxo-2H-1-benzopyran-3-yl)ethylidene]hydrazinecarboxylic acid
 phenylmethyl ester or salts thereof, can be used to treat humans infected
 with human immunodeficiency virus. I (0.1 mM) inhibited reverse
 transcriptase, in vitro, by 60%. Formulation examples are given.

IT 128171-56-2

RL: BIOL (Biological study)
 (human immunodeficiency virus infection treatment by)

RN 128171-56-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-[3-(trifluoromethyl)phenyl]-
 (CA INDEX NAME)



OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS

10/513699

RECORD (24 CITINGS)

<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 81 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1990:432580 CAPLUS

DOCUMENT NUMBER: 113:32580

ORIGINAL REFERENCE NO.: 113:5439a,5442a

TITLE: Electrical properties of coumarin derivatives

AUTHOR(S): Abd El Wahed, M. Gamal; Hassan, Aly M.; Raafat, Selim

CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Zagazig, Egypt

SOURCE: Chemistry & Industry (London, United Kingdom) (1990),
(8), 263-4

CODEN: CHINAG; ISSN: 0009-3068

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The elec. resistance was determined of 9 coumarin derivs. over a wide
temperature

range. At high temps., intrinsic conductivity dominates. Substituent effects
are discussed.

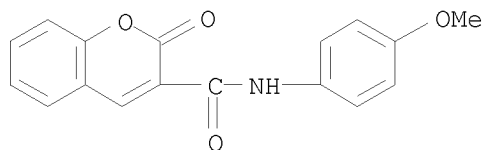
IT 1846-94-2

RL: PRP (Properties)

(elec. conductivity of)

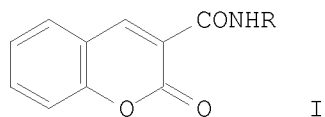
RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)

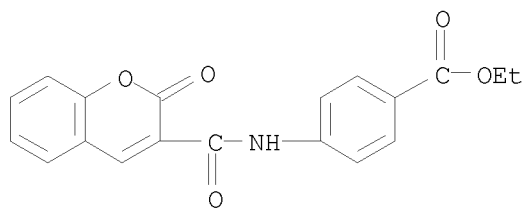


10/513699

L4 ANSWER 82 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1989:407181 CAPLUS
DOCUMENT NUMBER: 111:7181
ORIGINAL REFERENCE NO.: 111:1371a,1374a
TITLE: Coumarin-3-N-substituted carboxamides with
antimicrobial and insecticidal activities. Part 2
AUTHOR(S): El-Agrody, A. M.; Abdul-Ghany, A. R.; Bedair, A. H.;
Ghazal, S. A.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt
SOURCE: Afinidad (1988), 45(417), 447-50
CODEN: AFINAE; ISSN: 0001-9704
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:7181
GI

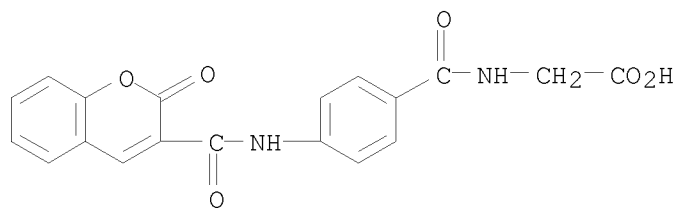


AB Coumarincarboxamides e.g., I (R = CH₂CH₂OH, CH₂CHOHCH₂OH, CH₂CH₂Cl, CH₂CH₂NMe₂, etc.) were prepared from 3-cargethoxycoumarin. Antimicrobial and insecticidal activities of I was determined
IT 111947-24-1 111947-26-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (insecticidal activity of)
RN 111947-24-1 CAPLUS
CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 111947-26-3 CAPLUS
CN Glycine, N-[4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]benzoyl]- (CA INDEX NAME)

10/513699



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 83 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1989:154097 CAPLUS

DOCUMENT NUMBER: 110:154097

ORIGINAL REFERENCE NO.: 110:25479a,25482a

TITLE: Synthesis of some new carboxanilides and amides of 8-methoxycoumarin-3-carboxylic acid as possible antifungal and antibacterial agents

AUTHOR(S): Shah, Sonal; Mehta, R. H.

CORPORATE SOURCE: Fac. Sci., M. S. Univ. Baroda, Baroda, 390 002, India

SOURCE: Journal of the Indian Chemical Society (1987), 64(11), 708-9

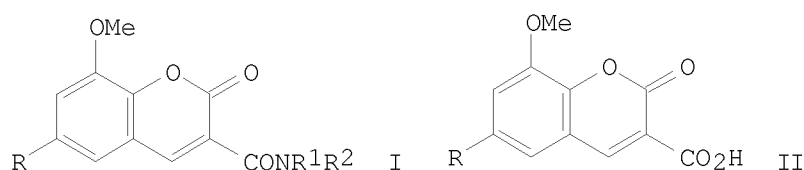
CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:154097

GI



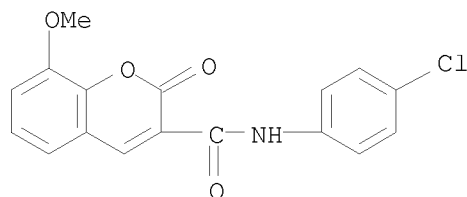
AB Twenty-one coumarincarboxamides I (R = R¹ = H, R² = Ph, substituted Ph, α -naphthyl, β -naphthyl, cyclohexyl, 4-phenylthiazol-2-yl; R = Br, R¹ = H, R² = 4-BrC₆H₄; R = H, R¹ = R² = Ph, Et; R¹ = Ph, R² = Et; NR¹R² = morpholino, 4-phenylpiperazino) were prepared from coumarincarboxylic acids II, via acid chlorides. Some I were tested for antifungal and antibacterial activity. I (R = H, Br, R¹ = H, R² = 4-BrC₆H₄) were active against some fungi. All other I tested were inactive against fungi. All I tested showed no antibacterial activity.

IT 87872-59-1P 119686-21-4P 119686-23-6P
119686-25-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antifungal and antibacterial activity of)

RN 87872-59-1 CAPLUS

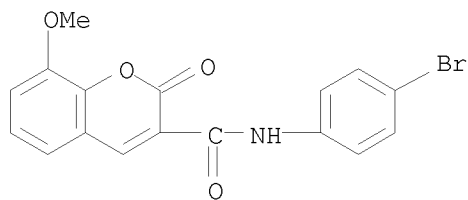
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-8-methoxy-2-oxo- (CA
INDEX NAME)



RN 119686-21-4 CAPLUS

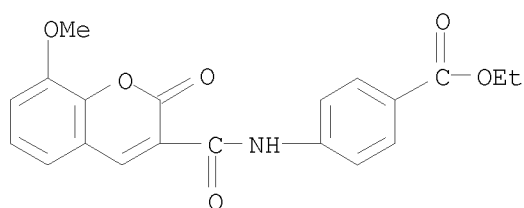
CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-8-methoxy-2-oxo- (CA
INDEX NAME)

10/513699



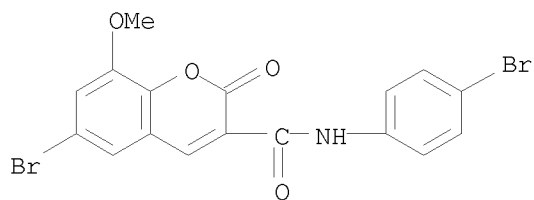
RN 119686-23-6 CAPLUS

CN Benzoic acid, 4-[[8-methoxy-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-, ethyl ester (CA INDEX NAME)



RN 119686-25-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-bromophenyl)-8-methoxy-2-oxo- (CA INDEX NAME)



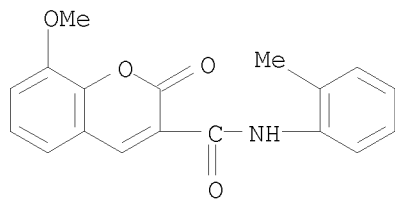
IT 87872-54-6P 87872-56-8P 87872-57-9P

87872-60-4P 119686-22-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 87872-54-6 CAPLUS

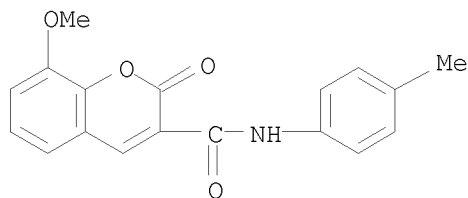
CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 87872-56-8 CAPLUS

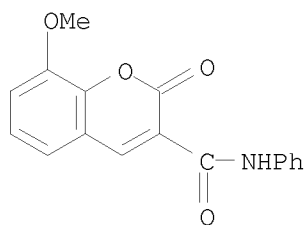
10/513699

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



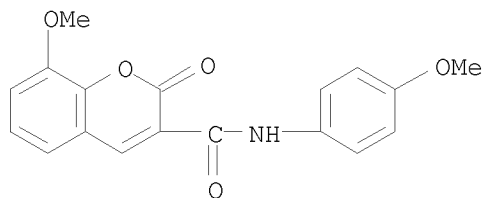
RN 87872-57-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)



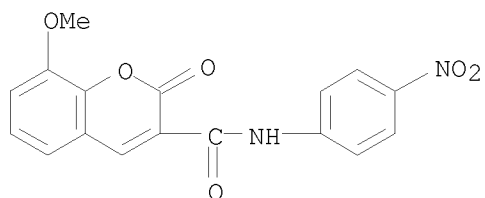
RN 87872-60-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 119686-22-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 6

THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

<12/04/2007>

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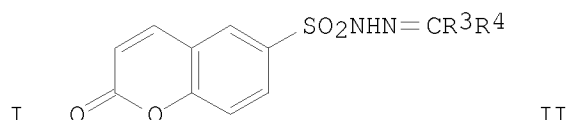
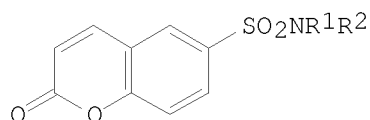
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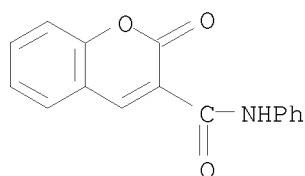
Erich Leese

10/513699

L4 ANSWER 84 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1989:57464 CAPLUS
DOCUMENT NUMBER: 110:57464
ORIGINAL REFERENCE NO.: 110:9504h,9505a
TITLE: The chemistry of sulfonylcoumarin derivatives
AUTHOR(S): Cremlyn, Richard J.; Clowes, Sally M.
CORPORATE SOURCE: Div. Chem. Sci., Hatfield Polytech.,
Hatfield/Hertfordshire, AL10 9AB, UK
SOURCE: Journal of the Chemical Society of Pakistan (1988),
10(1), 97-104
CODEN: JCSPDF; ISSN: 0253-5106
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:57464
GI

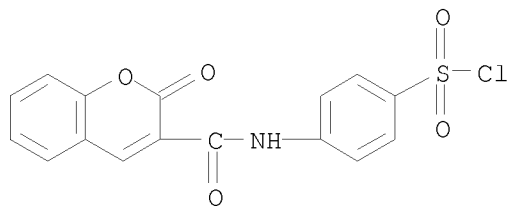


AB 6-(Chlorosulfonyl)coumarin was amidated to give amides I ($\text{R}^1 = \text{H}$, alkyl; $\text{R}^2 = \text{H}$, alkyl, PhCH_2 , tolyl; or $\text{NR}^1\text{R}^2 = \text{morpholino}$). Similarly, hydrazones II [$\text{R}^3 = \text{Me}$, H ; $\text{R}^4 = \text{Me}$, Ph , ClC_6H_4 , $\text{O}_2\text{NC}_6\text{H}_4$; or $\text{R}^3\text{R}^4 = (\text{CH}_2)_4$] were prepared from the sulfonyl chloride via the resp. hydrazide. Some I and II showed fungicidal activity.
IT 54396-25-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorosulfonylation of)
RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

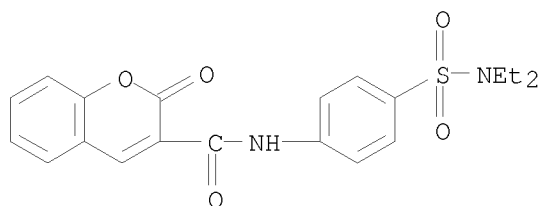


IT 118428-98-1P 118428-99-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)
RN 118428-98-1 CAPLUS
CN Benzenesulfonyl chloride, 4-[[2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]- (CA INDEX NAME)

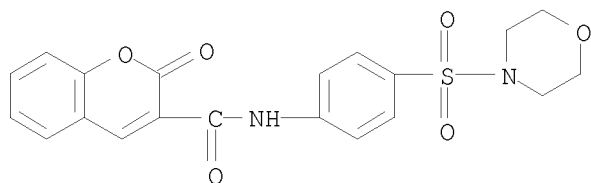
10/513699



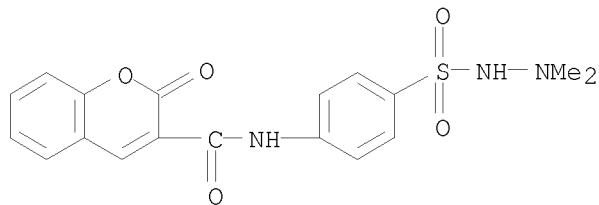
RN 118428-99-2 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(diethylamino)sulfonyl]phenyl]-2-oxo-
(CA INDEX NAME)



IT 118429-00-8P 118429-01-9P 118429-02-0P
118429-03-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 118429-00-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(4-morpholinylsulfonyl)phenyl]-2-oxo-
(CA INDEX NAME)



RN 118429-01-9 CAPLUS
CN Benzenesulfonic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-,
2,2-dimethylhydrazide (CA INDEX NAME)



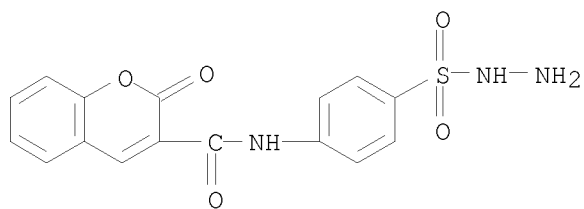
RN 118429-02-0 CAPLUS

<12/04/2007>

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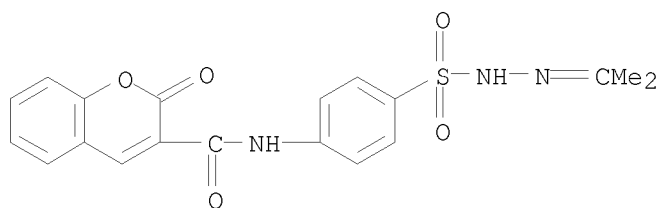
10/513699

CN Benzenesulfonic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-,
hydrazide (CA INDEX NAME)



RN 118429-03-1 CAPLUS

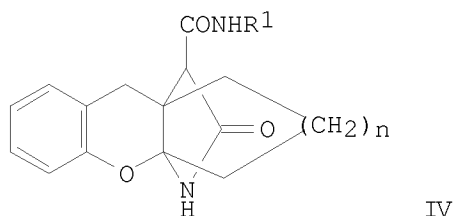
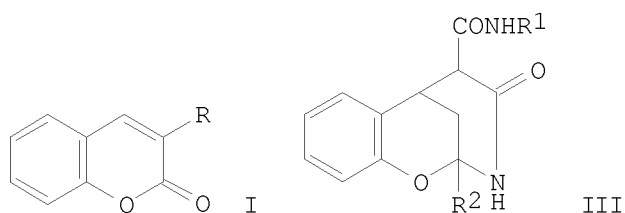
CN Benzenesulfonic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-,
2-(1-methylethylidene)hydrazide (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

10/513699

L4 ANSWER 85 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1988:112279 CAPLUS
DOCUMENT NUMBER: 108:112279
ORIGINAL REFERENCE NO.: 108:18389a,18392a
TITLE: Synthesis and studies of 3-N-arylcarbamidocoumarins
AUTHOR(S): El-Farargy, A. F.; Soliman, A. Y.; El-Mobayed, M.;
El-Esser, S.
CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Zagazig, Egypt
SOURCE: Revue Roumaine de Chimie (1987), 32(4), 435-41
CODEN: RRCHAX; ISSN: 0035-3930
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:112279
GI



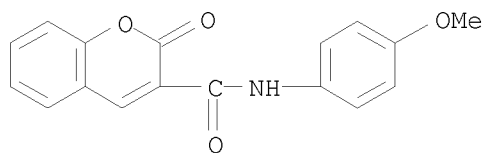
AB Amidation of 3-carbethoxycoumarin (I, R = CO₂Et) with R¹NH₂ (R¹ = PhCH₂, 4-MeOC₆H₄) gave carboxamidocoumarins I (R = CONHR¹, II). Michael cyclocondensation of II with MeCOR₂ (R₂ = Me, Et, CH₂, CHMe₂) in the presence of NH₄OAc gave tetrahydromethanobenzoxazocines III. Similar Michael cyclocondensation of II with cyclopentanone and cyclohexanone gave iminoxanthonecarboxamide derivative IV (n = 1,2).

IT 1846-94-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, condensation, and cyclocondensation reactions of, with ketones)

RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

<12/04/2007>

Erich Leese

10/513699

(2 CITINGS)

<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 86 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1988:21670 CAPLUS

DOCUMENT NUMBER: 108:21670

ORIGINAL REFERENCE NO.: 108:3671a,3674a

TITLE: Synthesis of biologically active N-substituted
3-coumarincarboxamides

AUTHOR(S): Bedair, A. H.

CORPORATE SOURCE: Fac. Educ., King-Abdul-Aziz Univ., Madinah Munawwarah,
Saudi Arabia

SOURCE: Journal fuer Praktische Chemie (Leipzig) (1987),
329(2), 359-64

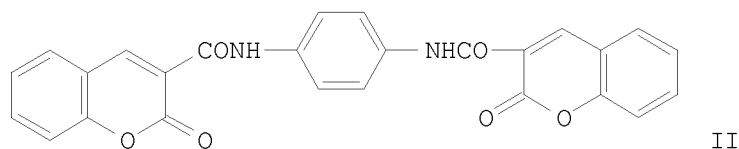
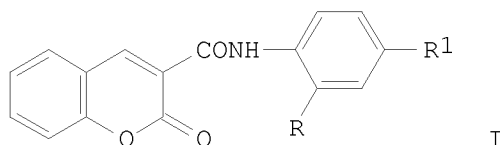
CODEN: JPCEAO; ISSN: 0021-8383

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:21670

GI



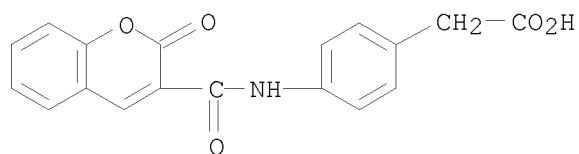
AB Coumarincarboxanilides I (R = H, H₂N; R₁ = H, Me, CO₂Et, CH₂CO₂H, CONHCH₂CO₂H, CONHC₆H₄Me-4, CONHCH₂CO₂Me) and II were prepared by amidation of 2-carbethoxycoumarin with anilines. II shows both bactericidal and fungicidal activities.

IT 111947-25-2P 111947-26-3P 111947-27-4P
111947-28-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal and fungicidal activities of)

RN 111947-25-2 CAPLUS

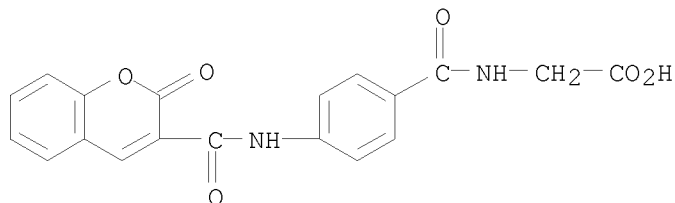
CN Benzeneacetic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl) carbonyl] amino]- (CA INDEX NAME)



10/513699

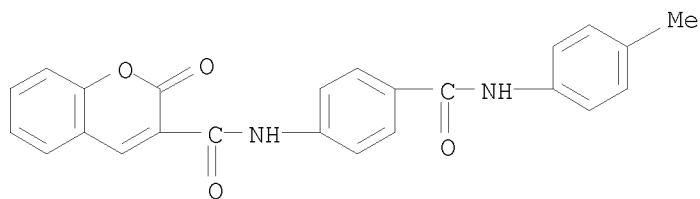
RN 111947-26-3 CAPLUS

CN Glycine, N-[4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]benzoyl]- (CA INDEX NAME)



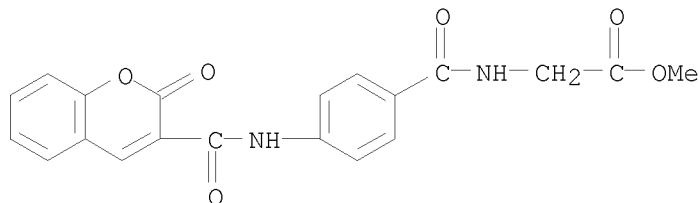
RN 111947-27-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(4-methylphenyl)amino]carbonyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 111947-28-5 CAPLUS

CN Glycine, N-[4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]benzoyl]-, methyl ester (CA INDEX NAME)



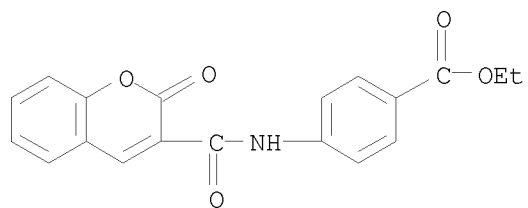
IT 111947-24-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, bactericidal and fungicidal activities, and condensation reaction of, with toluidine)

RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

10/513699



OS.CITING REF COUNT: 3

THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L4 ANSWER 87 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1987:636438 CAPLUS

DOCUMENT NUMBER: 107:236438

ORIGINAL REFERENCE NO.: 107:37977a,37980a

TITLE: Biologically active sulfonamides derived from α -pyrones

AUTHOR(S): Bedair, A. H.; Aly, F. M.; El-Assy, R. K. M.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1987), 26B(1), 91-4

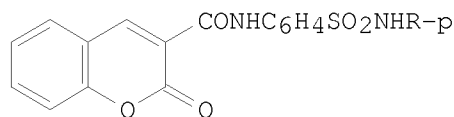
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

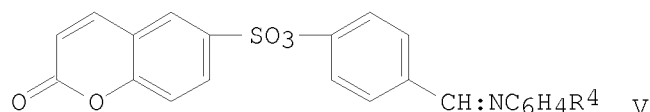
LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:236438

GI



II



AB Amidation of 3-carbethoxycoumarin (I) and p-H₂NC₆H₄SO₂NHR [e.g., R = H, o-, m-, and p-tolyl, CH₂Ph, C(NH₂):NH] gave R₁CONHC₆H₄SO₂NHR-p (II) (same R; R₁ = coumarin-3-yl). Treatment of I with p-H₂NNHSO₂C₆H₄NHAc gave R₁CONHNHSO₂C₆H₄R₂ III (same R₁; R₂ = NHAc-p), which was converted to III (R₂ = N:CHPh-p) with PhCHO after hydrolysis. Substitution reaction of 6-coumarinsulfonyl chloride (= R₃SO₂Cl) with p- or o-HOC₆H₄CHO gave R₃SO₃C₆H₄CHO-p (IV) or -o, resp. IV was converted to Schiff bases V (R₄ = o-NO₂, p-Me) with R₄C₆H₄NH₂ (same R₄). Similar reactions occurred starting with 3-carbethoxy-5,6-benzocoumarin. II (R = H, o-tolyl), IV, and V showed bactericidal activity.

IT 111456-08-7P 111456-09-8P 111456-10-1P

111456-11-2P 111456-15-6P 111456-16-7P

111456-17-8P 111456-18-9P 111456-19-0P

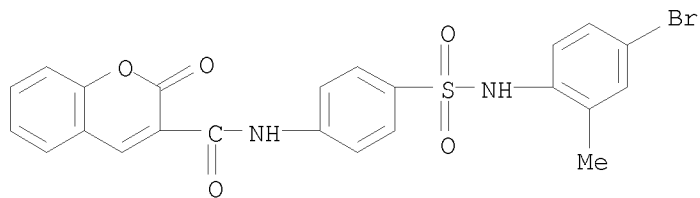
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 111456-08-7 CAPLUS

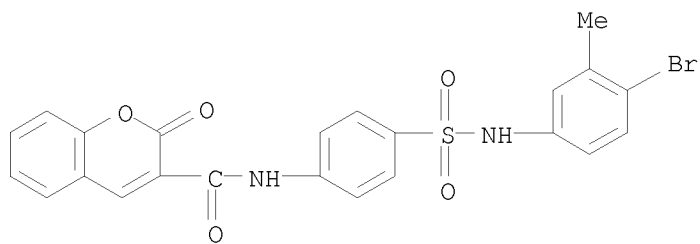
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4-bromo-2-methylphenyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)

10/513699



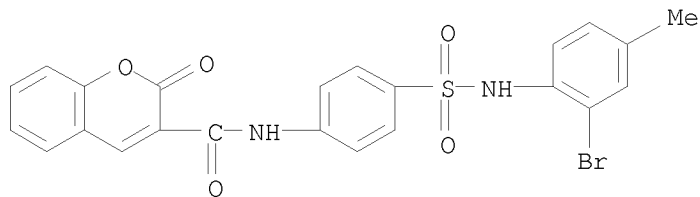
RN 111456-09-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4-bromo-3-methylphenyl]amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



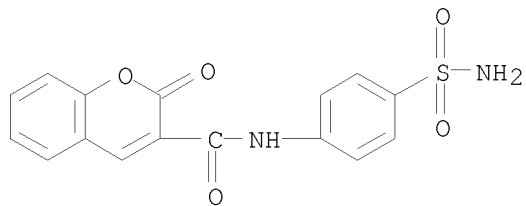
RN 111456-10-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[2-bromo-4-methylphenyl]amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 111456-11-2 CAPLUS

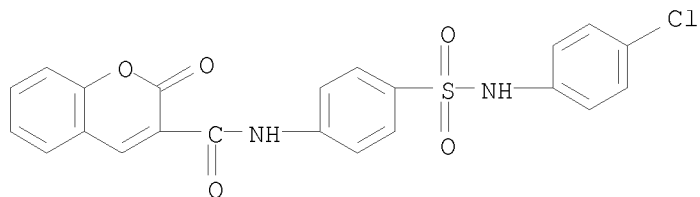
CN 2H-1-Benzopyran-3-carboxamide, N-[4-(aminosulfonyl)phenyl]-2-oxo- (CA INDEX NAME)



RN 111456-15-6 CAPLUS

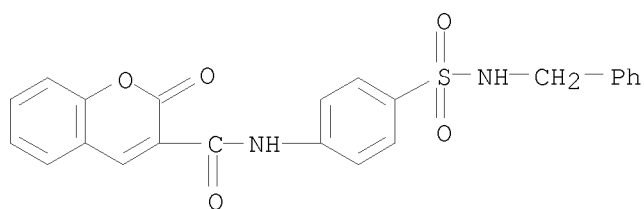
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4-chlorophenyl]amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)

10/513699



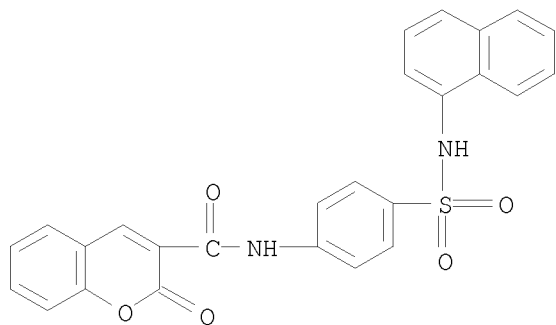
RN 111456-16-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[4-
[[(phenylmethyl) amino] sulfonyl] phenyl]- (CA INDEX NAME)



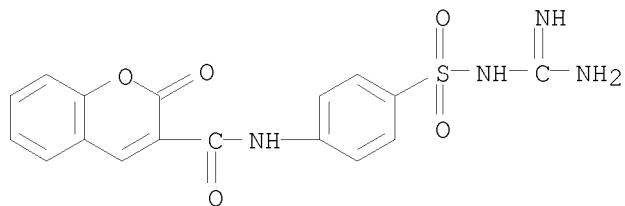
RN 111456-17-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-[(1-naphthalenylamino) sulfonyl] phenyl]-
2-oxo- (CA INDEX NAME)



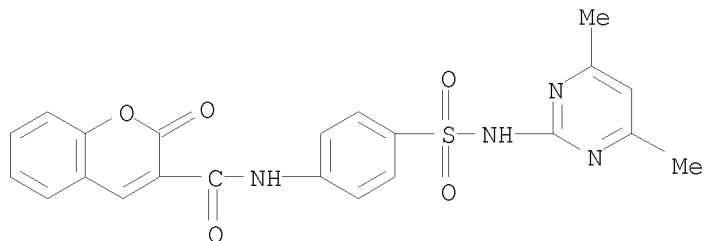
RN 111456-18-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-[4-
[[(aminoiminomethyl) amino] sulfonyl] phenyl]-2-oxo- (CA INDEX NAME)

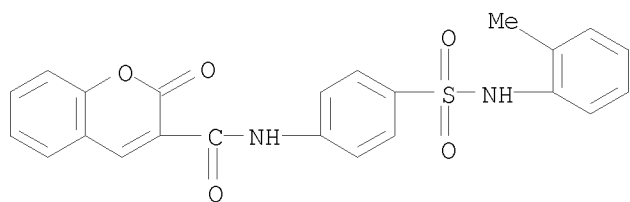


10/513699

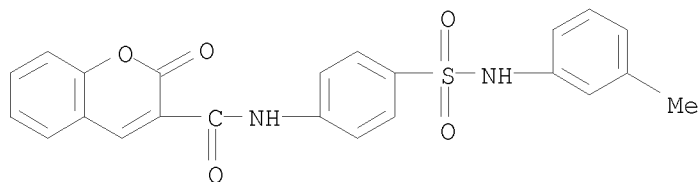
RN 111456-19-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4,6-dimethyl-2-pyrimidinyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



IT 111456-12-3P 111456-13-4P 111456-14-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, bactericidal activity, and bromination of)
RN 111456-12-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[2-methylphenyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)

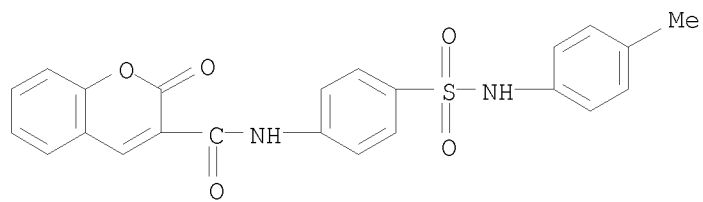


RN 111456-13-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[3-methylphenyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 111456-14-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[4-methylphenyl)amino]sulfonyl]phenyl]-2-oxo- (CA INDEX NAME)

10/513699



OS.CITING REF COUNT: 3

THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

10/513699

L4 ANSWER 88 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1987:575835 CAPLUS

DOCUMENT NUMBER: 107:175835

ORIGINAL REFERENCE NO.: 107:28219a,28222a

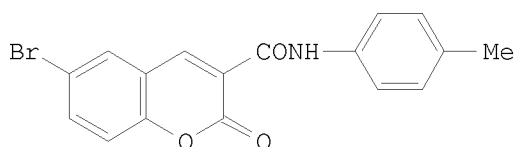
TITLE: Reactions of 3-[N-(p-tolylcarbamido)]-6-bromocoumarin.
Synthesis of 4-substituted 3,4-dihydrocoumarins,
4 α -chromeneacetic acid, benzopyranopyridones,
and 3,4,5,6-tetrahydro-1,3-benzoxazocine derivatives
AUTHOR(S): El-Kady, M.; Sayed, G. H.; Saleh, R. M.; Mosa, Hoda M.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Egyptian Journal of Chemistry (1986), Volume Date
1985, 28(1), 19-28
CODEN: EGJCA3; ISSN: 0367-0422

DOCUMENT TYPE: Journal

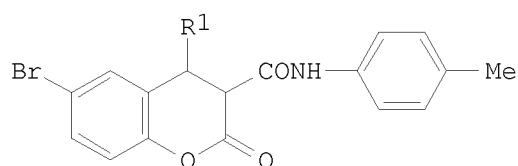
LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:175835

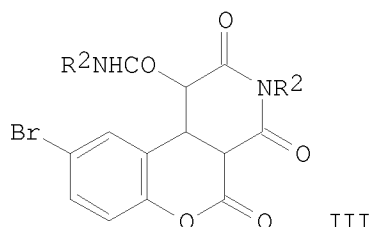
GI



I



II



III

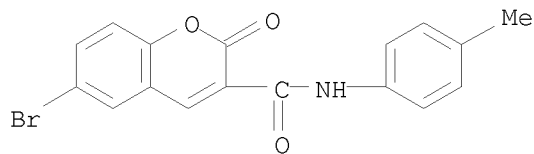
AB Coumarincarboxamide derivative I was converted to dihydrocoumarins II (R1 = alkyl, aryl, cyclohexyl) and benzopyranopyridines III (R2 = Ph, tolyl, PhCH2). The reaction of I with EtMgI gave II (R1 = Et). III (R2 = Ph) was obtained from I, CH₂(CO₂Et)₂, and PhNH₂.

IT 38485-85-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of)

RN 38485-85-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methylphenyl)-2-oxo- (CA
INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

<12/04/2007>

Erich Leese

10/513699

(1 CITINGS)

<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 89 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1987:515463 CAPLUS

DOCUMENT NUMBER: 107:115463

ORIGINAL REFERENCE NO.: 107:18711a,18714a

TITLE: Action of Grignard reagents and of ketones on 3-phenylcarbamoyl coumarins. Spectral data of the products

AUTHOR(S): El-Kady, M.; Sayed, G. H.; El-Gendy, A. M.; El-Sherif, M.

CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Egypt

SOURCE: Egyptian Journal of Chemistry (1986), Volume Date 1985, 28(1), 63-70

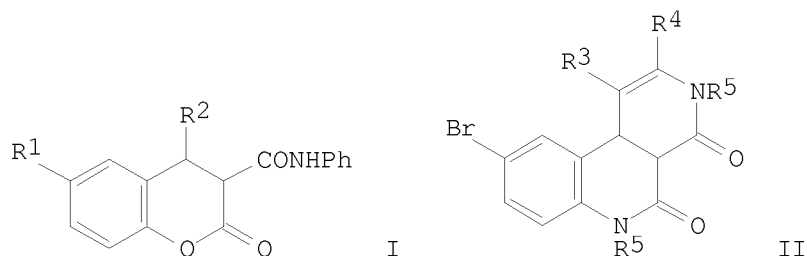
CODEN: EGJCA3; ISSN: 0367-0422

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:115463

GI



AB Coumarin-3-carboxamides were alkylated and arylated by Grignard reagents to yield I (R1 = H, Br; R2 = alkyl, aryl, PhCH2). Also prepared from coumarincarboxamides were benzonaphththyridines II (R3 = H, Me; R4 = Me, Et; R5 = H, Et).

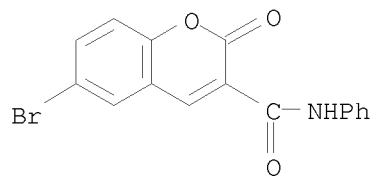
IT 38485-82-4 54396-25-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(alkylation and arylation of, by Grignard reagents)

RN 38485-82-4 CAPLUS

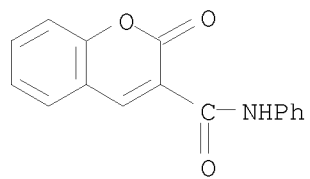
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-phenyl- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



OS.CITING REF COUNT:

3

THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

<12/04/2007>

Erich Leese

L4 ANSWER 90 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1987:156227 CAPLUS

DOCUMENT NUMBER: 106:156227

ORIGINAL REFERENCE NO.: 106:25421a,25424a

TITLE: Behavior of 3-(N-p-tolylcarbamido)-6-bromocoumarins towards Grignard reagents and Michael reaction

AUTHOR(S): El-Kady, M.; Sayed, G. H.; Saleh, R. M.; Mosa, Hoda M.

CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt

SOURCE: Journal of the Chemical Society of Pakistan (1986), 8(2), 91-6

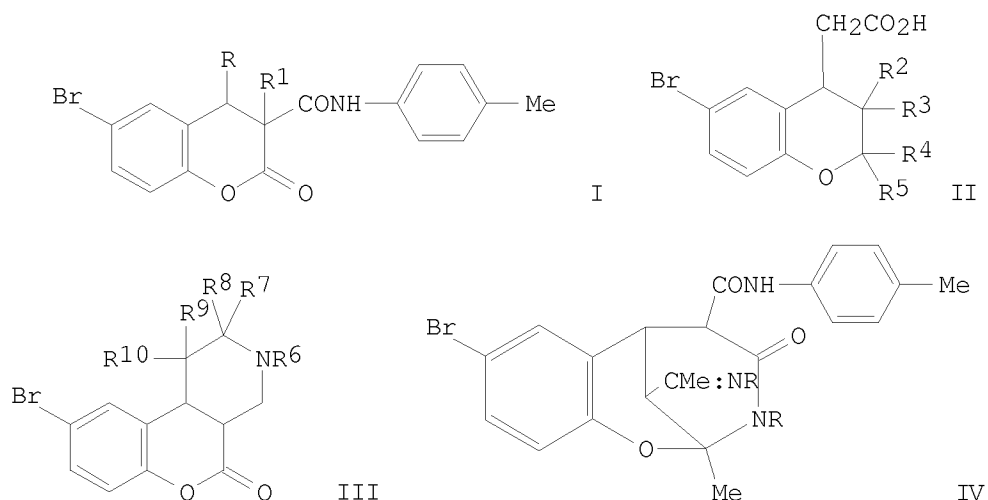
CODEN: JCSPDF; ISSN: 0253-5106

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:156227

GI



AB Dihydrocoumarins I (R = Me, Et, Ph, 2-, 4-MeOC₆H₄, cyclohexyl; R₁ = H) were prep'd by the reaction of I (RR₁ = bond) with Grignard reagents. Coumarinacetic acids II [R₂, R₃ = H, R₄ R₅ = O; R₃ R₄ = bond, R₂, R₅ = Me, Et; R₂ R₅ = (CH₂)₅] were prep'd by Michael condensation of I (RR₁ = bond) with CH₂(CO₂Et)₂ or R₂R₅CO in presence of NaOEt. Michael condensation of I (RR₁ = bond) with CH₂(CO₂Et)₂, AcCH₂CO₂Et, or with R₂R₅CO in presence of R₆NH₂ (R₆ = Ph, 4-MeC₆H₄, PhCH₂) gave benzopyranopyridines III (R₇ R₈ = O, R₉ = H, R₁₀ = R₆ NHCO; R₇ = Me, Et; R₈ R₉ = bond; R₇, R₁₀ = R₂, R₅). Benzoxazocines IV were prep'd by the reaction of (MeCO)₂CH₂ with I (RR₁ = bond) in presence of R₆NH₂.

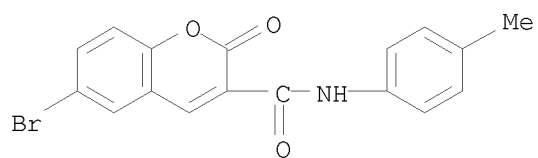
IT 38485-85-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with Grignard reagents)

RN 38485-85-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methylphenyl)-2-oxo- (CA
INDEX NAME)

10/513699



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

10/513699

L4 ANSWER 91 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1986:129747 CAPLUS

DOCUMENT NUMBER: 104:129747

ORIGINAL REFERENCE NO.: 104:20525a,20528a

TITLE: The reaction between an azomethine and malonyl dichloride

AUTHOR(S): Sard, Howard; Meltzer, Peter C.; Razdan, Raj K.

CORPORATE SOURCE: SISA Pharm. Lab. Inc., Cambridge, MA, 02138, USA

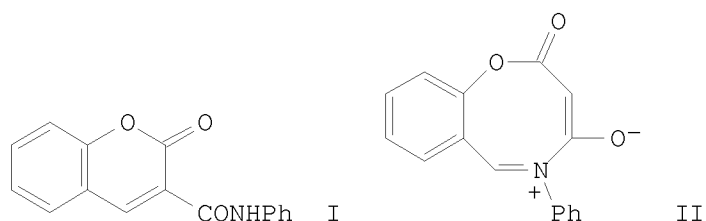
SOURCE: Journal of Heterocyclic Chemistry (1985), 22(2), 257
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 104:129747

GI



AB Treating 2-HOC₆H₄CH:NPh with CH₂(COCl)₂ gave 37% coumarin I, not the reported benzoxazocine II (Bonsignore, L.; et al, 1982).

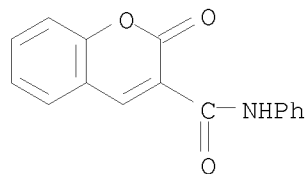
IT 54396-25-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, from hydroxybenzylidenamine and malonyl dichloride, vs. benzoxazocinone)

RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



L4 ANSWER 92 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1985:422418 CAPLUS

DOCUMENT NUMBER: 103:22418

ORIGINAL REFERENCE NO.: 103:3691a,3694a

TITLE: Synthesis and novel [4 + 2] cycloaddition reactions of coumarin derivatives

AUTHOR(S): Gotthardt, Hans; Hoffmann, Norbert

CORPORATE SOURCE: Gesamthochsch. Wuppertal, Bergische Univ., Wuppertal, D-5600/1, Fed. Rep. Ger.

SOURCE: Liebigs Annalen der Chemie (1985), (5), 901-12

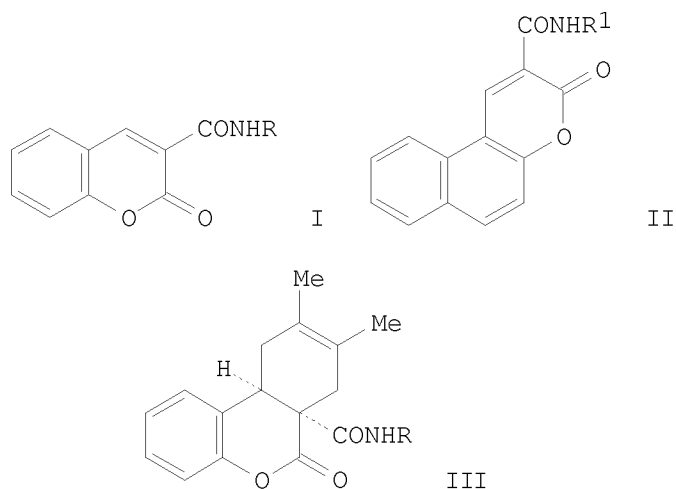
CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 103:22418

GI



AB Coumarin derivs. I (R = Me, PhCH₂, aryl) and II (R¹ = PhCH₂NH, substituted anilino, 2,4,6-Cl₃C₆H₂O) were prepared from corresponding azomethines (e.g., o-HOC₆H₄CH:NR). The I and II underwent cycloaddn. reactions with 2,3-dimethyl-1,3-butadiene and 1,2-bis(methylene)cyclohexane to give polycyclic compds. such as III.

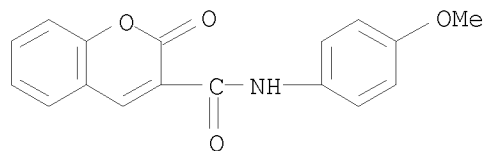
IT 1846-94-2P 1847-00-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cycloaddn. reactions of)

RN 1846-94-2 CAPLUS

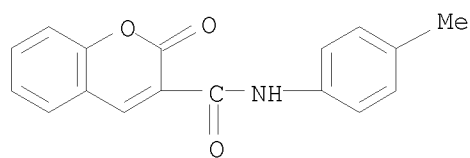
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)

10/513699



RN 1847-00-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 3

THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

10/513699

L4 ANSWER 93 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1985:62034 CAPLUS

DOCUMENT NUMBER: 102:62034

ORIGINAL REFERENCE NO.: 102:9725a,9728a

TITLE: Reactions of azomethines and carbon suboxide

AUTHOR(S): Bonsignore, Leonardo; Cabiddu, Salvatore; Loy, Giuseppe; Secci, Mario

CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Cagliari, Cagliari, 09100, Italy

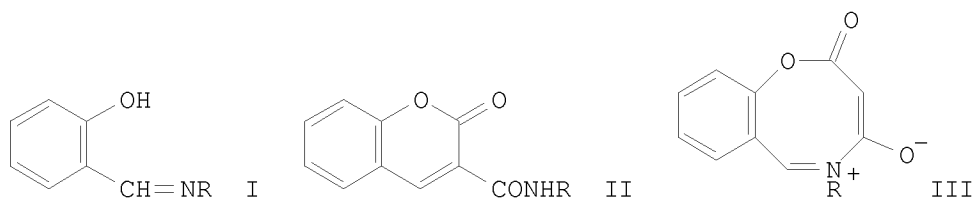
SOURCE: Heterocycles (1984), 22(11), 2587-90

CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



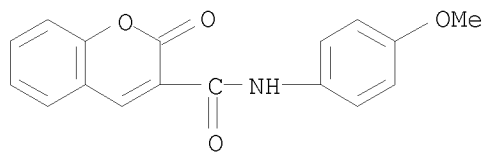
AB Salicylaldehyde anils I (R = Ph, tolyl, anisyl) were treated with C3O2 in the absence of acid to yield coumarincarboxanilides II and some 1,5-benzoxazocines III. Thus, I (R = Ph) was treated with C3O2 in Et2O at 0° and then at room temperature to give 65% II (R = Ph) and 12% III (R = Ph).

IT 1846-94-2P 1847-00-3P 54396-25-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 1846-94-2 CAPLUS

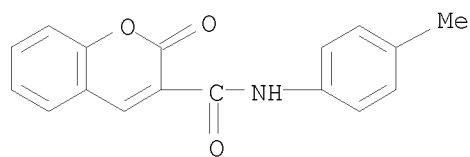
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

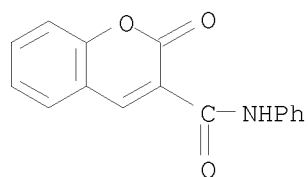
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

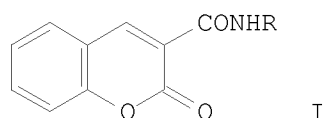


OS.CITING REF COUNT: 6

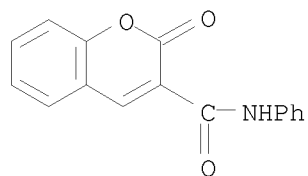
THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

10/513699

L4 ANSWER 94 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1984:551717 CAPLUS
DOCUMENT NUMBER: 101:151717
ORIGINAL REFERENCE NO.: 101:22963a,22966a
TITLE: Some reactions of coumarins with hydrazine and
ethylenediamine
AUTHOR(S): Islam, A. M.; Aly, F. M.; El-Sharief, A. M. S.;
Bedair, A. H.; El-Masry, F. M.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt
SOURCE: Egyptian Journal of Chemistry (1983), 26(3), 233-9
CODEN: EGJCA3; ISSN: 0367-0422
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:151717
GI

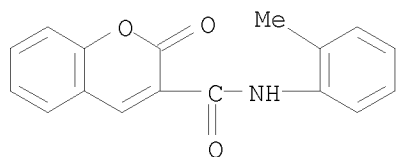


AB 3-Coumarincarboxamides I (R = Ph, tolyl, ClC₆H₄, naphthyl) were cleaved by
N₂H₄ to yield CH₂(CONHR)CONHNH₂. The reaction of I (R = tolyl, ClC₆H₄)
with H₂NCH₂CH₂NH₂ gave CH₂(CONHCH₂CH₂NH₂)CONHC₆H₄R₁ (R₁ = Me, Cl).
IT 54396-25-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, by hydrazine)
RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



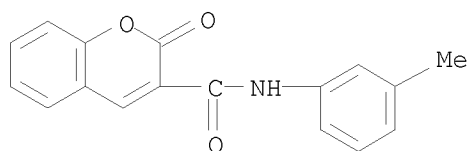
IT 1846-98-6 1846-99-7 1847-00-3
1847-02-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, by hydrazine and ethylenediamine)
RN 1846-98-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



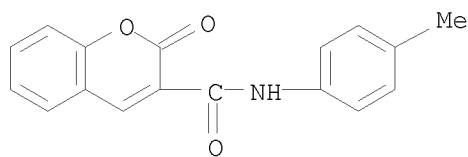
RN 1846-99-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)



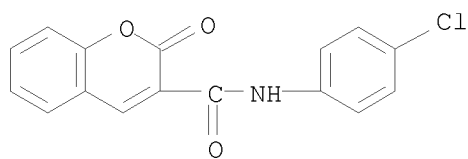
RN 1847-00-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-02-5 CAPLUS

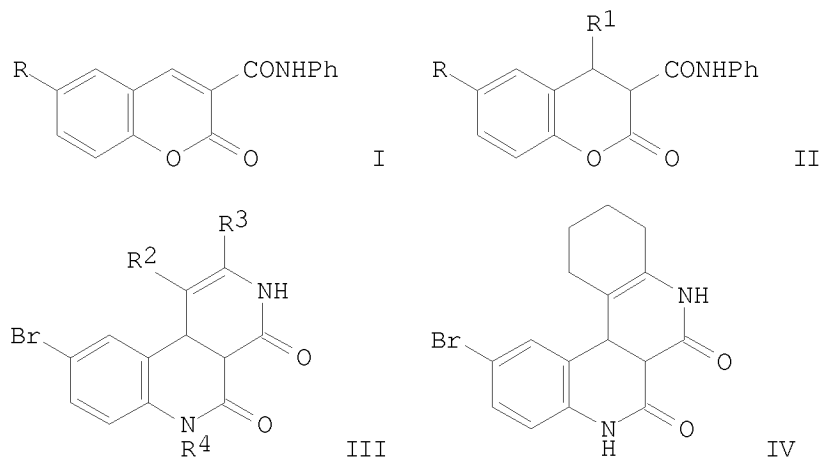
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 36 THERE ARE 36 CAPLUS RECORDS THAT CITE THIS
RECORD (36 CITINGS)

10/513699

L4 ANSWER 95 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1984:472564 CAPLUS
DOCUMENT NUMBER: 101:72564
ORIGINAL REFERENCE NO.: 101:11189a,11192a
TITLE: Action of Grignard reagents and ketones on
3-(N-phenylcarbamoyl)coumarins and spectral data of
the products
AUTHOR(S): El-Kady, Mohamed; Sayed, Galal H.; Mansour, Adel;
El-Sherif, Mohamed
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Polish Journal of Chemistry (1982), 56(10-12), 1393-8
CODEN: PJCHDQ; ISSN: 0137-5083
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:72564
GI



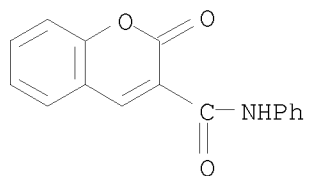
AB Grignard reagents R_1MgX ($R_1 = Me$, $X = iodo$; $R_1 = Ph$, Pr , p -tolyl, $X = Br$; $R_1 = PhCH_2$, CMe_3 , $X = Cl$) reacted with carbamoylcoumarins I ($R = H$, Br) to give dihydrocoumarins II via a hydroxybenzopyran intermediate. Michael condensation of I ($R = Br$) with ketones $R_2CH_2COR_3$ ($R_2 = H$, $R_3 = Me$; $R_2 = R_3 = Me$; $R_2 = Me$, $R_3 = Et$) in the presence of NH_4OAc or $EtNH_2$ at room temperature or 170° gave phenanthrolines III ($R_4 = H$, Et). Cyclohexanone gave the annulated derivative IV.

IT 54396-25-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(Grignard reactions of)

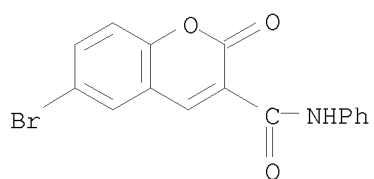
RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

10/513699



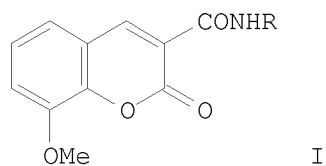
IT 38485-82-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with Grignard reagents or ketones)
RN 38485-82-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-phenyl- (CA INDEX NAME)



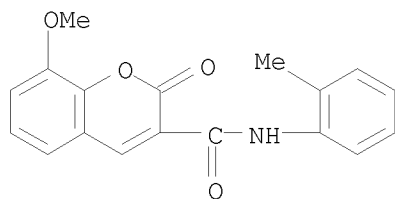
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

10/513699

L4 ANSWER 96 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1983:611993 CAPLUS
DOCUMENT NUMBER: 99:211993
ORIGINAL REFERENCE NO.: 99:32611a,32614a
TITLE: Fragmentation mechanisms of some coumarincarboxamide derivatives
AUTHOR(S): Abd El Rahman, A. H.
CORPORATE SOURCE: Fac. Sci., Mansoura Univ., Mansoura, Egypt
SOURCE: Egyptian Journal of Chemistry (1982), 25(5), 485-9
CODEN: EGJCA3; ISSN: 0367-0422
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

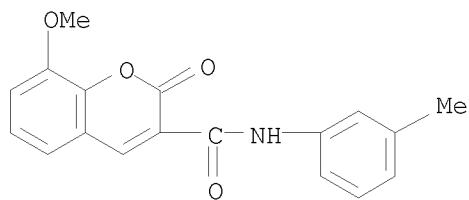


AB Mass spectral fragmentation patterns for coumarins (I; R = Pr, o-, p-MeC6H4, Ph, etc.) were determined
IT 87872-54-6 87872-55-7 87872-56-8
87872-57-9 87872-59-1 87872-60-4
RL: PRP (Properties)
(mass spectra of)
RN 87872-54-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



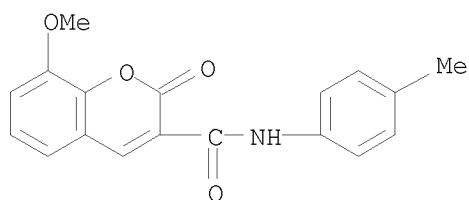
RN 87872-55-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



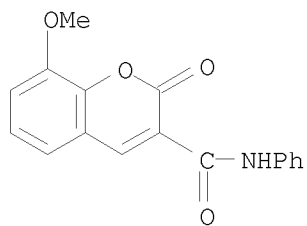
RN 87872-56-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



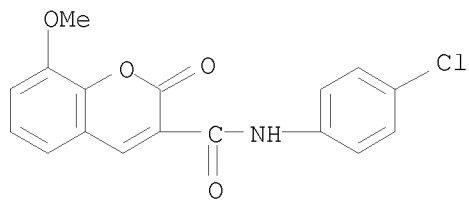
RN 87872-57-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)



RN 87872-59-1 CAPLUS

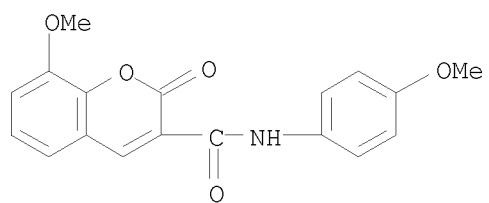
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-8-methoxy-2-oxo- (CA INDEX NAME)



RN 87872-60-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 8-methoxy-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)

10/513699



<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 97 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1982:492085 CAPLUS

DOCUMENT NUMBER: 97:92085

ORIGINAL REFERENCE NO.: 97:15351a,15354a

TITLE: Some new coumarins and Schiff's bases as possible antibacterial and antifungal agents

AUTHOR(S): Mittal, A. K.; Singhal, O. P.

CORPORATE SOURCE: Chem. Dep., St. John's Coll., Agra, India

SOURCE: Journal of the Indian Chemical Society (1982), 59(3), 373-4

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 97:92085

AB Some new coumarin-3-carboxanilides and 2-hydroxybenzylidene anilines have been prepared by condensing different substituted malonanilic acids with salicylaldehydes using different condensing agents. Some of the prepared compds. were screened for antibacterial and antifungal activity and showed some tuberculostatic activity.

IT 74556-01-7P 82607-88-3P 82607-90-7P

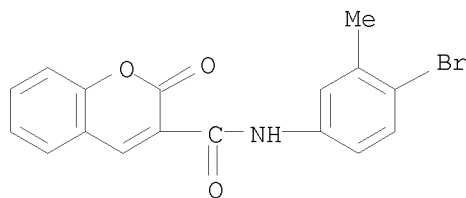
82607-93-0P 82607-94-1P 82607-95-2P

82607-97-4P 82608-00-2P 82608-01-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

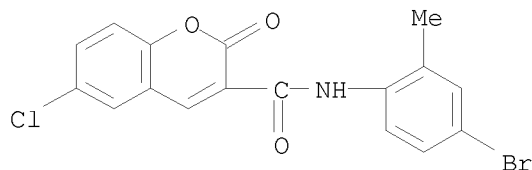
RN 74556-01-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-3-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 82607-88-3 CAPLUS

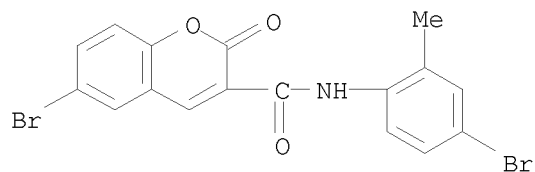
CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-2-methylphenyl)-6-chloro-2-oxo- (CA INDEX NAME)



RN 82607-90-7 CAPLUS

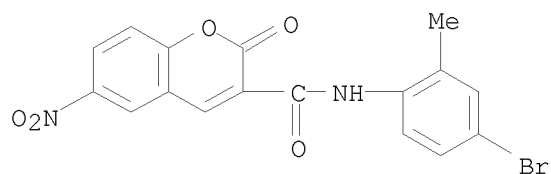
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-bromo-2-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



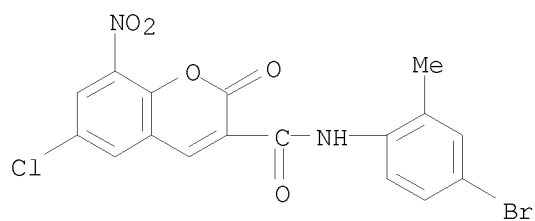
RN 82607-93-0 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-2-methylphenyl)-6-nitro-2-oxo-
(CA INDEX NAME)



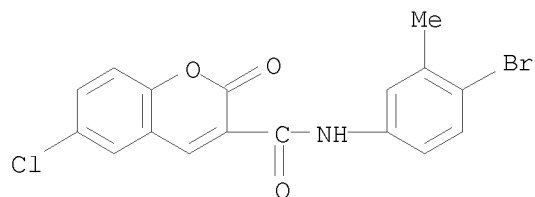
RN 82607-94-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-2-methylphenyl)-6-chloro-8-nitro-
2-oxo- (CA INDEX NAME)



RN 82607-95-2 CAPLUS

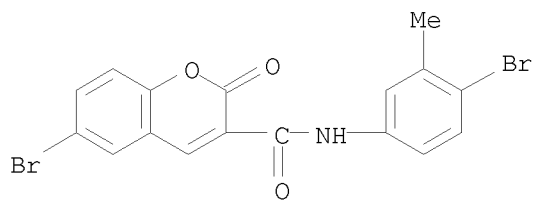
CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-3-methylphenyl)-6-chloro-2-oxo-
(CA INDEX NAME)



RN 82607-97-4 CAPLUS

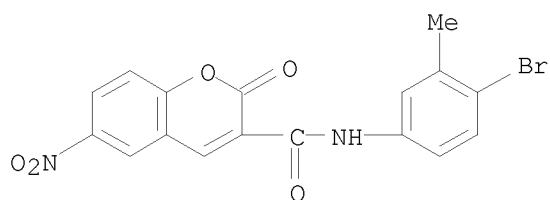
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-bromo-3-methylphenyl)-2-oxo-
(CA INDEX NAME)

10/513699



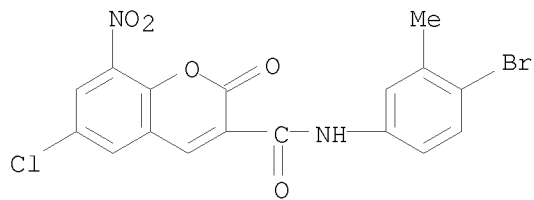
RN 82608-00-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-3-methylphenyl)-6-nitro-2-oxo-
(CA INDEX NAME)



RN 82608-01-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-3-methylphenyl)-6-chloro-8-nitro-
2-oxo- (CA INDEX NAME)

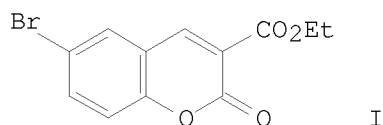


OS.CITING REF COUNT: 6

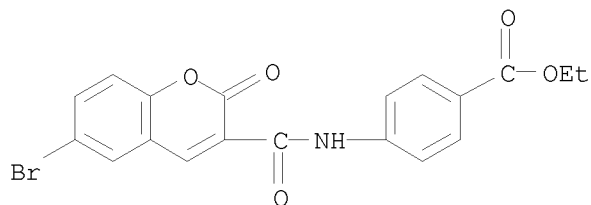
THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

10/513699

L4 ANSWER 98 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1982:135383 CAPLUS
DOCUMENT NUMBER: 96:135383
ORIGINAL REFERENCE NO.: 96:22045a,22048a
TITLE: Chemotherapeutic studies on schistosomiasis. XXV.
Derivatives of substituted coumarin-3-carboxylic
esters and amides
AUTHOR(S): Zhang, Yuanlang; Chen, Baozhen; Zheng, Keqin; Xu,
Mouli; Zhang, Lizhu; Lei, Xinghan
CORPORATE SOURCE: Shanghai Inst. Pharm. Ind. Res., Shanghai, Peop. Rep.
China
SOURCE: Yaoxue Xuebao (1982), 17(1), 17-22
CODEN: YHHPAL; ISSN: 0513-4870
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI



AB Of 57 title compds. synthesized and tested for anthelmintic activity, 6
compds. had pronounced anthelmintic activity against Schistosomiasis
japonica. Et 6-bromocoumarin-3-carboxylate (I) [2199-90-8] was the most
effective.
IT 81309-22-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and anthelmintic activity of)
RN 81309-22-0 CAPLUS
CN Benzoic acid, 4-[[[(6-bromo-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-,
ethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 35 THERE ARE 35 CAPLUS RECORDS THAT CITE THIS
RECORD (38 CITINGS)

L4 ANSWER 99 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1981:603906 CAPLUS

DOCUMENT NUMBER: 95:203906

ORIGINAL REFERENCE NO.: 95:34077a, 34080a

TITLE: Some reactions of 3N-arylcarbamidocoumarins:
 synthesis of substituted
 3,4,5,6-tetrahydro-2,6-methano-2H-1,3-benzoxazocines,
 3,4,4a,10b-tetrahydro-5H-[1]benzopyrano[3,4-
 c]pyridines, 1,2,3,4,9,9a-hexahydro-4a,9-iminoethano-
 4aH-xanthenes and
 6a,7,8,9,10,11,12,12b-octahydro-6H-[1]benzopyrano[3,4-
 c]quinolines

AUTHOR(S): El-Kady, M.; El-Hashash, M. A.; Sayed, M. A.;
 El-Sherif, M.

CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Indian Journal of Chemistry, Section B: Organic
 Chemistry Including Medicinal Chemistry (1981),
 20B(6), 491-3

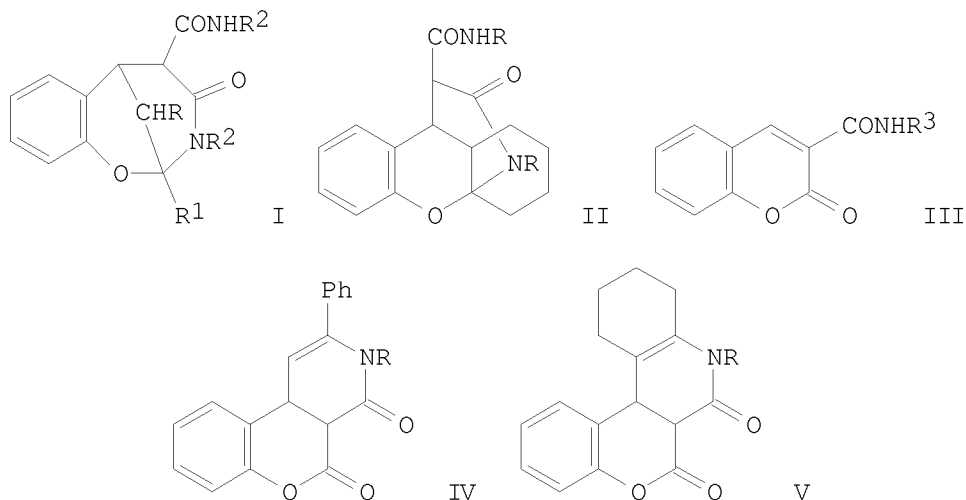
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 95:203906

GI



AB Substituted benzoxazocines I (R = H, Et; R¹ = Me, Et, Ph; R² = H, Me, Et, Ph) and xanthenecarboxamides II (R = H, Et) were prepared by Michael condensation of 3-(N-arylcarbamyl)coumarins (III; R³ = Ph, 4-MeC₆H₄) with RCHCOR¹ or cyclohexanone in the presence of NH₄OAc or R₂NH₂ at room temperature. The preparation of IV (R = H, Et, Ph, 4-MeC₆H₄) and V (R = H, Et, Ph) was also described.

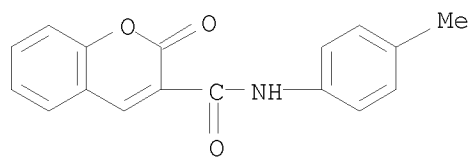
IT 1847-00-3 54396-25-7

RL: RCT (Reactant); RACT (Reactant or reagent)
 (Michael condensation of, with ketones)

RN 1847-00-3 CAPLUS

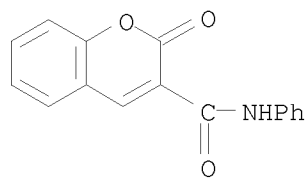
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)

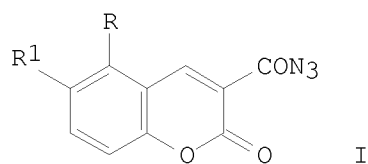


OS.CITING REF COUNT: 3

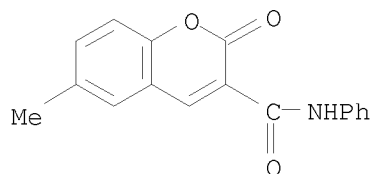
THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

10/513699

L4 ANSWER 100 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1981:423827 CAPLUS
DOCUMENT NUMBER: 95:23827
ORIGINAL REFERENCE NO.: 95:4147a,4150a
TITLE: Photolysis of acyl azides leading to acyl nitrenes
AUTHOR(S): Elkasaby, M. A.; Noureldin, N. A.
CORPORATE SOURCE: Dep. Chem., Ain Shams Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1980),
19B(12), 1080-1
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

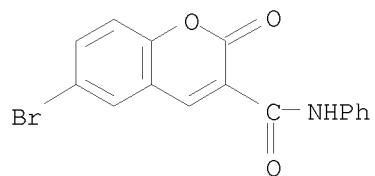


AB Photolysis of acyl azides, e.g., I (R = H, R1 = Me, Br, Cl; RR1 = benzo),
is shown to give acyl nitrenes in the triplet state and not in the singlet
state. The acyl nitrenes were trapped by hydrocarbons and aniline.
IT 38485-81-3P 38485-82-4P 38485-83-5P
38485-84-6P 38485-85-7P 38485-92-6P
38485-93-7P 38485-94-8P 38485-98-2P
38485-99-3P 38486-00-9P 38543-18-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 38485-81-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-2-oxo-N-phenyl- (CA INDEX NAME)

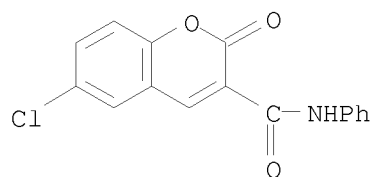


RN 38485-82-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-phenyl- (CA INDEX NAME)

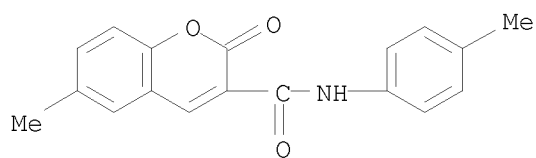
10/513699



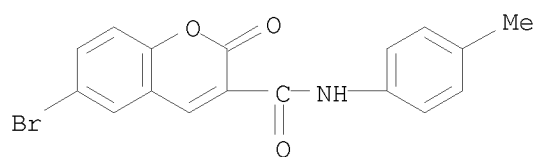
RN 38485-83-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-2-oxo-N-phenyl- (CA INDEX NAME)



RN 38485-84-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

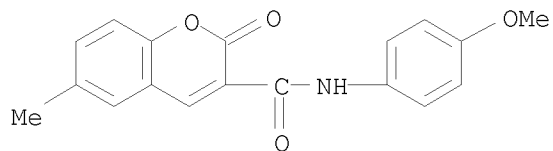


RN 38485-85-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



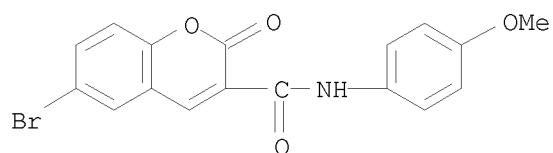
RN 38485-92-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-6-methyl-2-oxo- (CA INDEX NAME)

10/513699



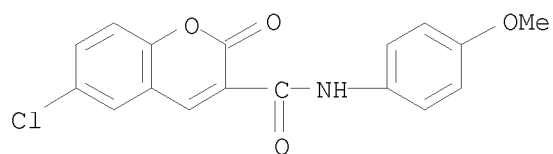
RN 38485-93-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



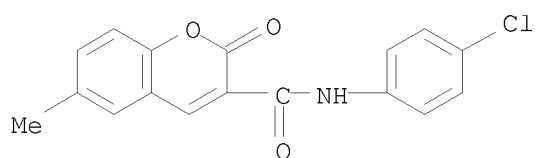
RN 38485-94-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



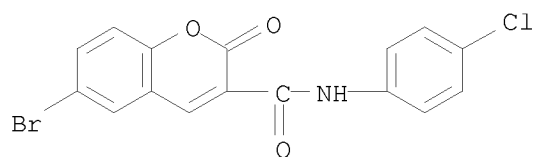
RN 38485-98-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-6-methyl-2-oxo- (CA INDEX NAME)



RN 38485-99-3 CAPLUS

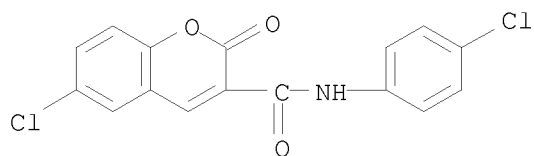
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)



10/513699

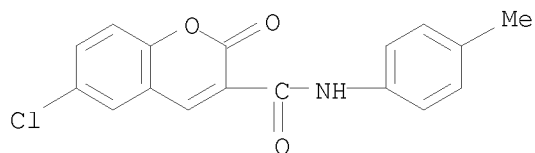
RN 38486-00-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-chlorophenyl)-2-oxo- (CA
INDEX NAME)



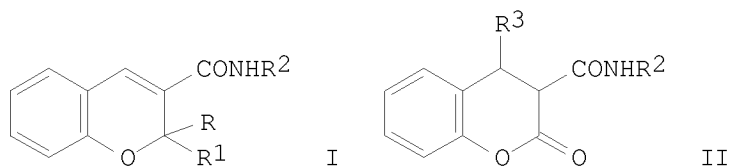
RN 38543-18-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-methylphenyl)-2-oxo- (CA
INDEX NAME)

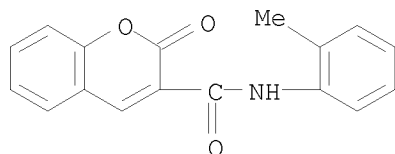


10/513699

L4 ANSWER 101 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1980:620536 CAPLUS
DOCUMENT NUMBER: 93:220536
ORIGINAL REFERENCE NO.: 93:35206h,35207a
TITLE: Action of Grignard reagents on 1-benzopyran-2(H)-ones
AUTHOR(S): Islam, A. M.; El-Sharief, A. M. S.; Bedair, A. H.;
Ibrahim, E. H.; Aly, F. M.; El-Masry, F. M.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1979),
17B(6), 630-2
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:220536
GI

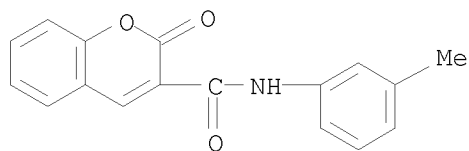


AB Treating title benzopyranones I (RR₁ = O, R₂ = Ph, o-, m-, p-MeC₆H₄, 4-ClC₆H₄) with Grignard reagents gave 3,4-dihydro-1-benzopyran-2H-ones (II; R₃ = Ph, PhCH₂, allyl, Et, Bu, Me₂CHCH₂, Me₃C) by 1,4-addition and 2-hydroxybenzopyrans (I; R = OH, R₁ = Ph) by 1,2-addition
IT 1846-98-6 1846-99-7 1847-00-3
1847-02-5 54396-25-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(Grignard reactions of)
RN 1846-98-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)

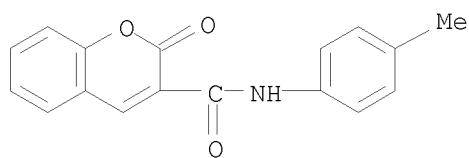


RN 1846-99-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)

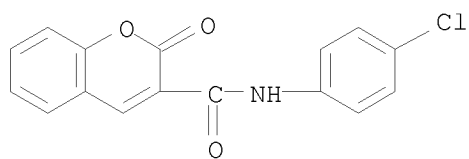
10/513699



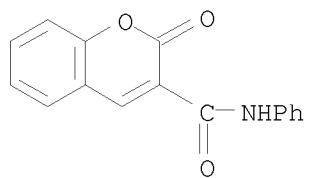
RN 1847-00-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-02-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)



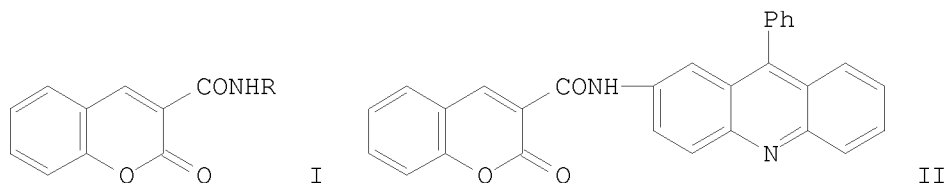
RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

10/513699

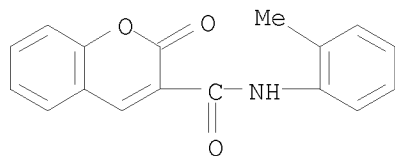
L4 ANSWER 102 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1980:495087 CAPLUS
DOCUMENT NUMBER: 93:95087
ORIGINAL REFERENCE NO.: 93:15237a,15240a
TITLE: Synthesis and reactions of
coumarin-3-N-bromoarylcarboxamides
AUTHOR(S): Islam, A. M.; Bedair, A. H.; Aly, F. M.; El-Sharief,
A. M.; El-Masry, F. M.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1980),
19B(3), 224-7
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:95087
GI



AB Various (bromoaryl)coumarincarboxamides I (R = 4-BrC₆H₄, 4,2-, 4,3-, or 2,4-BrMeC₆H₃, 4,2- or 2,4-BrClC₆H₃, 4-bromo-, and 4,7-dibromonaphthyl) were prepared by bromination of the corresponding arylcoumarins. I reacted with aliphatic amines and hydrazines. Some acridinyl derivs., e.g. II, were prepared from I (R = p-PhNHC₆H₄).

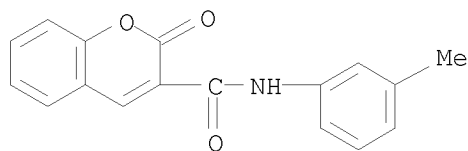
IT 1846-98-6 1846-99-7 1847-00-3
1847-02-5 54396-25-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)

RN 1846-98-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)

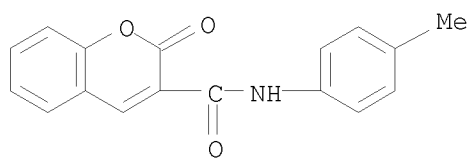


RN 1846-99-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)

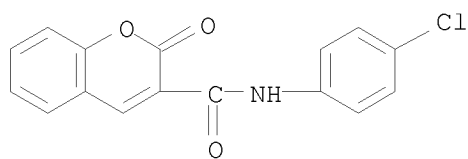
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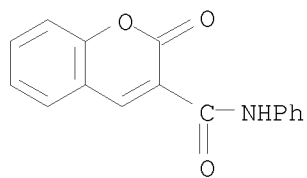
RN 1847-00-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-02-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)

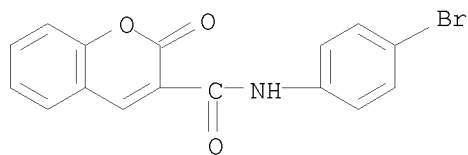


RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



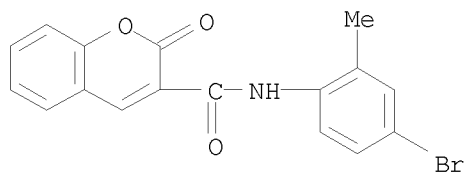
IT 74555-99-0P 74556-00-6P 74556-01-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction with amines)
RN 74555-99-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromophenyl)-2-oxo- (CA INDEX NAME)

10/513699



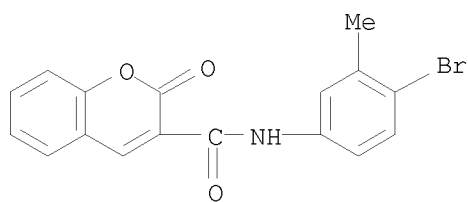
RN 74556-00-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-2-methylphenyl)-2-oxo- (CA
INDEX NAME)

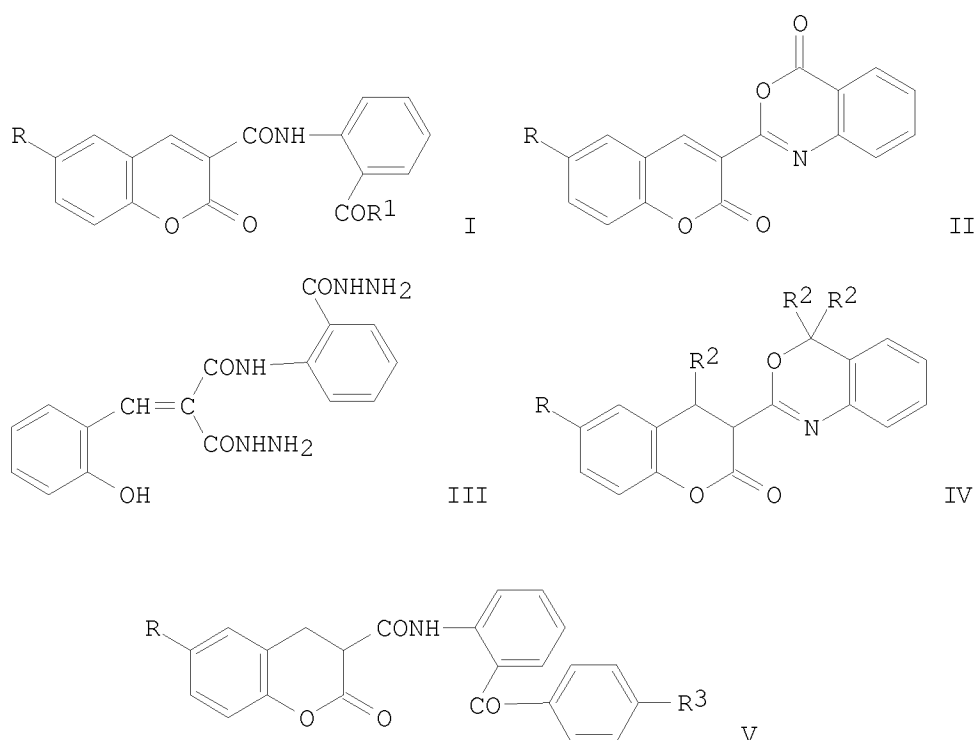


RN 74556-01-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-bromo-3-methylphenyl)-2-oxo- (CA
INDEX NAME)



L4 ANSWER 103 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1980:408105 CAPLUS
 DOCUMENT NUMBER: 93:8105
 ORIGINAL REFERENCE NO.: 93:1487a,1490a
 TITLE: Synthesis of some 3
 (3',1'-benzoxazin-4'-one)-6-substituted coumarins and
 their chemical reactions
 AUTHOR(S): Abdalla, M. M.; Elkady, M.; El-Farargy, A. F.
 CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Cairo, Egypt
 SOURCE: Egyptian Journal of Chemistry (1979), Volume Date
 1977, 20(3), 245-57
 CODEN: EGJCA3; ISSN: 0367-0422
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 93:8105
 GI



AB Phenylcarbamoylcoumarins I ($R = H, Br$; $R_1 = OH$) cyclized in refluxing Ac_2O to give the benzoxazinones II. Treatment of II ($R = H$) with amines gave I ($R = H$; $R_1 = NH_2, PhCH_2NH, PhNH, BuNH, 4-MeOC_6H_4NH, 4-MeC_6H_4NH$), whereas treatment of II ($R = H$) with N_2H_4 in EtOH at room temperature gave the dihydrazide III. Grignard reaction of II ($R = H, Br$) with R_2Br ($R_2 = Me, Et, Ph, 2-MeC_6H_4, 4-MeC_6H_4, 4-MeOC_6H_4$) gave the trisubstituted benzopyranylbenzoxazines IV. Friedel-Crafts reaction of II ($R = H, Br$) with aromatic hydrocarbons gave the dihydrocoumarins V ($R_3 = H, Me, Cl, Et, Me_2CH$).

IT 73877-78-8P 73877-79-9P

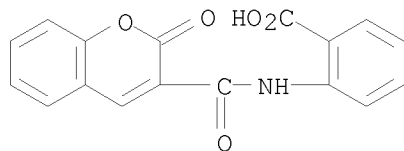
10/513699

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation and cyclocondensation reaction of)

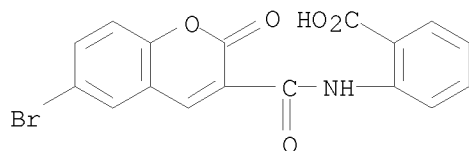
RN 73877-78-8 CAPLUS

CN Benzoic acid, 2-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX
NAME)



RN 73877-79-9 CAPLUS

CN Benzoic acid, 2-[[(6-bromo-2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-
(CA INDEX NAME)

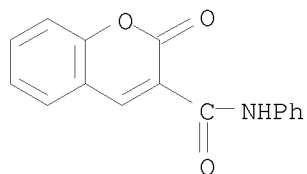


OS.CITING REF COUNT: 6

THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

10/513699

L4 ANSWER 104 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1975:31212 CAPLUS
DOCUMENT NUMBER: 82:31212
ORIGINAL REFERENCE NO.: 82:4957a,4960a
TITLE: Condensation of 3-carbethoxycoumarins with
acetylacetone, ethyl acetoacetate, and ethyl
cyanoacetate
AUTHOR(S): Sammour, A.; Abdalla, M.; Elkady, M.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1974),
82(3), 369-73
CODEN: ACASA2; ISSN: 0001-5407
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 5,2-R(HO)C6H3CH[CH(CO2H)2]CH(COMe)2, o-HO-C6H4CH[CH(CO2H)2]CH(COMe)2, and
the chromancarboxani-lide I [R = PhNH, R1 = (MeCO)2CH], and the
pyranobenzopyran II were prepared by condensation of the coumarins III (R =
EtO, R1 = H, Me, Br; R = PhNH, R1 = H) with MeCOCH2-COMe. III (R = EtO,
R1 = H, Me, Br; R = PhNH, R1 = H) and MeCOCH2CO2Et gave the
pyranobenzopyrans IV, the dibenzopyran V, and benzopyranopyridine VI (R =
Ph, R1 = MeCO). II (R = OEt, R1 = H) and NCCH2CO2Et gave I (R = EtO, R1 =
EtO2CCHCONH2) and VI (R = H, R1 = CN).
IT 54396-25-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with acetylacetone, ethyl acetylacetate, and ethyl
cyanoacetate)
RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

L4 ANSWER 105 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1972:514185 CAPLUS

DOCUMENT NUMBER: 77:114185

ORIGINAL REFERENCE NO.: 77:18809a,18812a

TITLE: Reactions with 6-substituted 3-carbethoxycoumarins

AUTHOR(S): Sammour, A.; Selim, M. I. B.; Elkady, M.

CORPORATE SOURCE: Fac. Sci. Eng., Ain Shams Univ., Cairo, Egypt

SOURCE: United Arab Republic Journal of Chemistry (1971),

14(3), 261-74

CODEN: UAJCAZ; ISSN: 0372-3704

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB 3-Carbethoxycoumarins (I, R = Me, Br, Cl) reacted in C₆H₆, MePh, or PhCl with AlCl₃ to give the 1,3,4-dihydro derivs. (II). Reaction of I with PhMgBr gave the 2,2,4-triphenyl-3-benzoylchromans, but 4-methyl-6-substituted-coumarins (III) with PhMgBr or p-MeOPhMgBr gave the 2,2-diarylchroman analogs. I with primary amines (XNH₂, X = Me, Et, Pr, Bu, Ph, o-MeC₆H₄, m-MeC₆H₄, p-MeC₆H₄, o-MeOC₆H₄, p-MeOC₆H₄, o-ClC₆H₄, p-ClC₆H₄, α -naphthyl, β -naphthyl, furfuryl, PhCH₂) or secondary amines (piperidine or morpholine) in boiling EtOH gave the 6-substituted N-alkyl(or aryl)-3-coumarincarboxamides. Reaction of I with NH₂NH₂ in boiling EtOH gave the azine (IV) and malonic dihydrazide. Reaction of I with BzNHNH₂ in boiling EtOH for 5 hr yielded the hydrazides (VI), but I with PhNHNH₂ or BzNHNH₂ for a short time gave 6-substituted 3-coumarincarboxylic acid N-phenyl or N-benzoylhydrazides, resp.

IT 38485-81-3P 38485-82-4P 38485-83-5P

38485-84-6P 38485-85-7P 38485-86-8P

38485-87-9P 38485-88-0P 38485-89-1P

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38485-93-7P 38485-94-8P 38485-98-2P

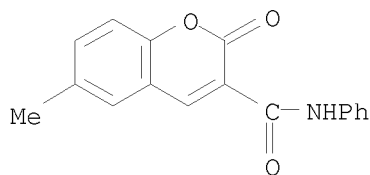
38485-99-3P 38486-00-9P 38543-18-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

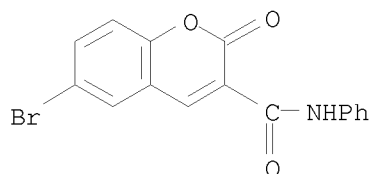
RN 38485-81-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-2-oxo-N-phenyl- (CA INDEX NAME)



RN 38485-82-4 CAPLUS

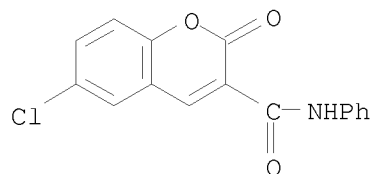
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-2-oxo-N-phenyl- (CA INDEX NAME)



10/513699

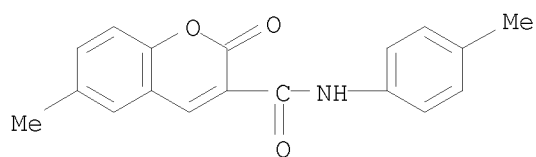
RN 38485-83-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-2-oxo-N-phenyl- (CA INDEX NAME)



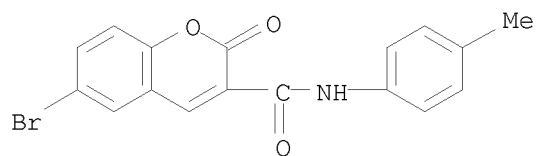
RN 38485-84-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



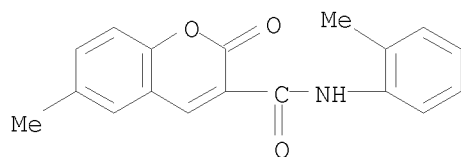
RN 38485-85-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-86-8 CAPLUS

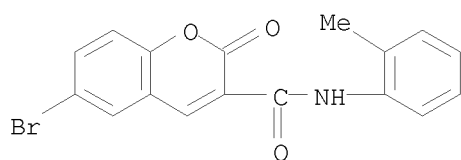
CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-87-9 CAPLUS

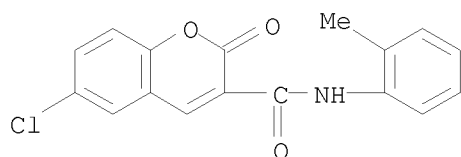
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



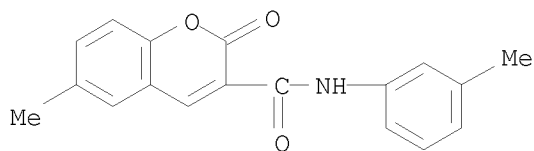
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CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



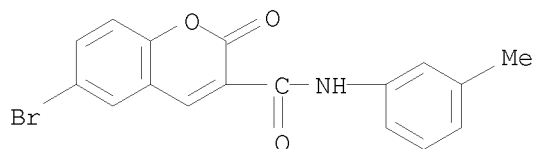
RN 38485-89-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-methyl-N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)



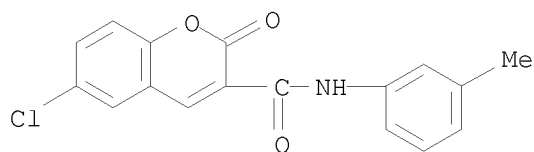
RN 38485-90-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 38485-91-5 CAPLUS

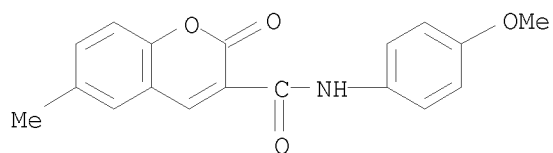
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)



10/513699

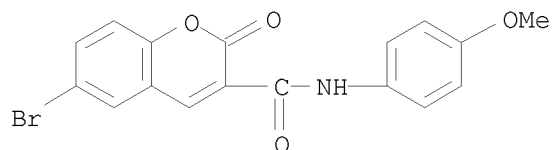
RN 38485-92-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-6-methyl-2-oxo- (CA
INDEX NAME)



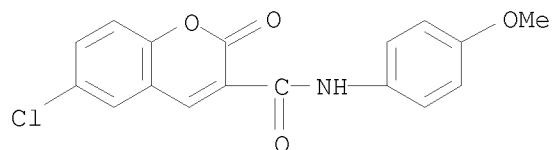
RN 38485-93-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-methoxyphenyl)-2-oxo- (CA
INDEX NAME)



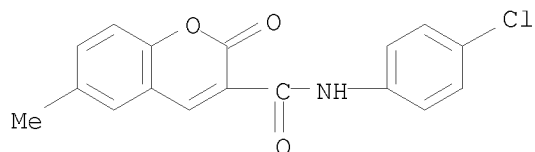
RN 38485-94-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-methoxyphenyl)-2-oxo- (CA
INDEX NAME)



RN 38485-98-2 CAPLUS

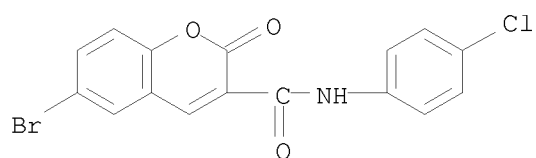
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-6-methyl-2-oxo- (CA
INDEX NAME)



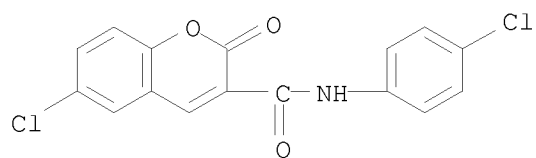
RN 38485-99-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-chlorophenyl)-2-oxo- (CA
INDEX NAME)

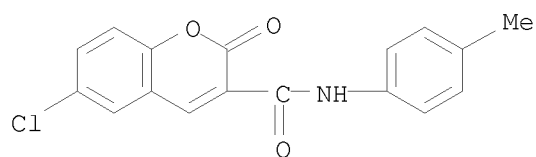
10/513699



RN 38486-00-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-chlorophenyl)-2-oxo- (CA
INDEX NAME)



RN 38543-18-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-methylphenyl)-2-oxo- (CA
INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L4 ANSWER 106 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1968:402804 CAPLUS

DOCUMENT NUMBER: 69:2804

ORIGINAL REFERENCE NO.: 69:535a,538a

TITLE: Coumarin derivatives of pharmaceutical interest

AUTHOR(S): Selleri, R.; Orzalesi, G.; Caldini, O.; Spano, R.;
Ferretti, G.CORPORATE SOURCE: Soc. Italo-Britannica L. Manetti, H. Roberts Co.,
Florence, ItalySOURCE: Bollettino Chimico Farmaceutico (1967), 106(10), 680-7
CODEN: BCFAAI; ISSN: 0006-6648

DOCUMENT TYPE: Journal

LANGUAGE: Italian

GI For diagram(s), see printed CA Issue.

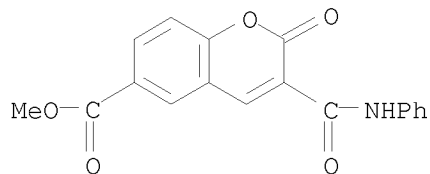
AB Compds. of the general formula I are prepared A mixture of 0.05M 6-carbomethoxycoumarin-3-carboxylic acid and 200 ml. SOCl₂ is refluxed 2-4 hrs. and the acid chloride treated with 0.1 mole NH₃ to give Me 3-carbamoylcoumarin-6-carboxylate, m. 274° (MeOH). Similarly prepared are the following I (R, R₁, R₂, and m.p. given): H, H, Et, 259° (EtOH); H, Pr, Me, 183° (MeOH); H, Pr, Et, 166° (EtOH); H, Bu, Me, 181° (MeOH); H, Bu, Et, 142° (EtOH); Me, Me, Me, 178° (MeOH); Me, Me, Et, 152° (EtOH); Et, Et, Me, 154° (MeOH); Et, Et, Et, 133° (EtOH); (NRR₁ =) pyrrolidino, -, Me, 155° (MeOH); (NRR₁ =) pyrrolidino, -, Et, 184° (EtOH); (NRR₁ =) morpholino, -, Me, 238° (MeOH); (NRR₁ =) morpholino, -, Et, 185° (EtOH); H, Ph, Me, 208° (MeOH); H, Ph, Et, 206° (HOAc); H, PhCH₂, Me, 202° (MeOH); H, PhCH₂, Et, 187° (EtOH); H, p-EtOC₆H₄, Me, 227° (MeOH); H, p-EtOC₆H₄, Et, 213° (EtOH); H, p-EtO₂CC₆H₄, Me, 246° (HOAc); H, p-EtO₂CC₆H₄, Et, 235° (HOAc); H, p-MeSO₂C₆H₄, Me, 297° (MeOH); H, p-MeSO₂C₆H₄, Et, 266° (EtOH); H, CONH₂, Me, 256° (MeOH); and H, CONH₂, Et, 250° (EtOH). Also prepared were I (R = H, R₁ = 1-phenyl-2,3-dimethyl-5-oxo-3-pyrazolin-4-yl, R₂ = Me) (II), m. 230° (HOAc); and I (R = H, R₁ = 1-phenyl-2,3-dimethyl-5-oxo-3-pyrazolin-4-yl, R₁ = Et) (III), m. 191° (HOAc). II and III demonstrate analgesic activity in mice. I (R = R₁ = Et, R₂ = Me) increases respiration and blood pressure in rabbits.

IT 18439-84-4P 18439-87-7P 18439-88-8P
18439-89-9P 18439-90-2P 18439-91-3P
18439-92-4P 18543-84-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 18439-84-4 CAPLUS

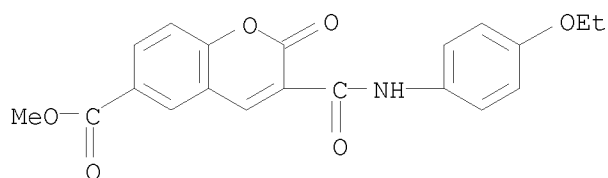
CN 2H-1-Benzopyran-6-carboxylic acid, 2-oxo-3-[(phenylamino)carbonyl]-,
methyl ester (CA INDEX NAME)



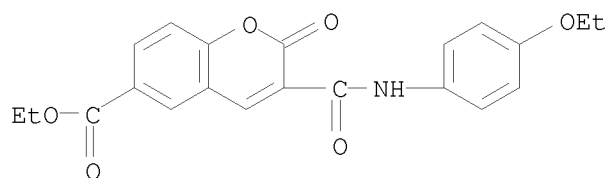
RN 18439-87-7 CAPLUS

10/513699

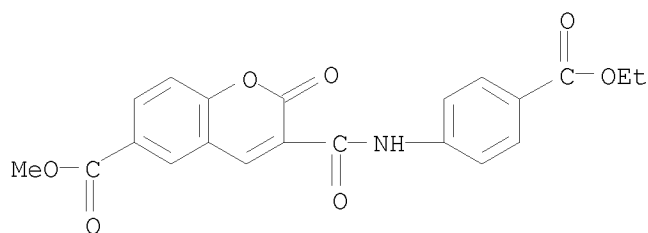
CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[(4-ethoxyphenyl) amino] carbonyl]-2-oxo-, methyl ester (CA INDEX NAME)



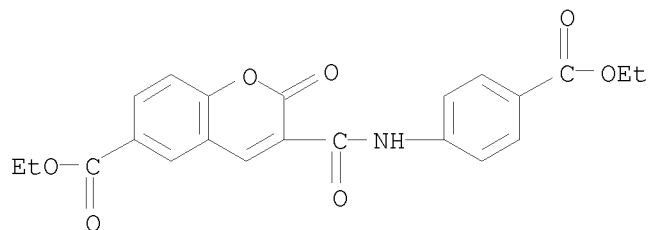
RN 18439-88-8 CAPLUS
CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[(4-ethoxyphenyl) amino] carbonyl]-2-oxo-, ethyl ester (CA INDEX NAME)



RN 18439-89-9 CAPLUS
CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[[4-(ethoxycarbonyl)phenyl] amino] carbonyl]-2-oxo-, methyl ester (CA INDEX NAME)

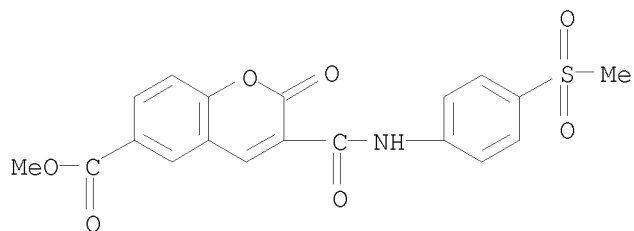


RN 18439-90-2 CAPLUS
CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[[4-(ethoxycarbonyl)phenyl] amino] carbonyl]-2-oxo-, ethyl ester (CA INDEX NAME)

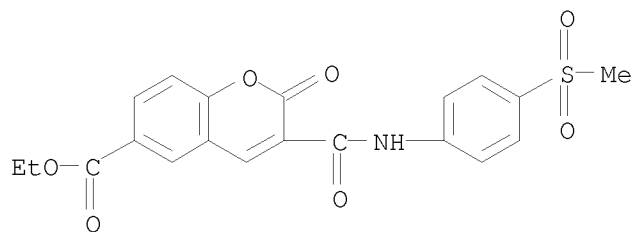


10/513699

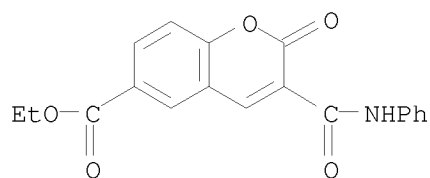
RN 18439-91-3 CAPLUS
CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[[4-(methylsulfonyl)phenyl]amino]carbonyl]-2-oxo-, methyl ester (CA
INDEX NAME)



RN 18439-92-4 CAPLUS
CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[[4-(methylsulfonyl)phenyl]amino]carbonyl]-2-oxo-, ethyl ester (CA
INDEX NAME)



RN 18543-84-5 CAPLUS
CN 2H-1-Benzopyran-6-carboxylic acid, 2-oxo-3-[(phenylamino)carbonyl]-, ethyl
ester (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L4 ANSWER 107 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1967:503951 CAPLUS
 DOCUMENT NUMBER: 67:103951
 ORIGINAL REFERENCE NO.: 67:19587a,19590a
 TITLE: Photoconductive coumarin derivatives for
 electrophotographic reproductions
 INVENTOR(S): Sgarbi, Renato; Chiodoni, Ugo; Knirsch, Franco
 PATENT ASSIGNEE(S): Ferrania Societa per Azioni
 SOURCE: Fr., 4 pp.
 CODEN: FRXXAK
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

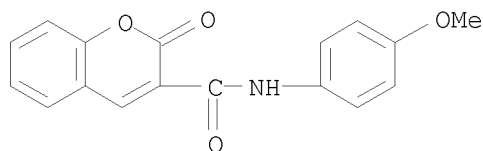
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1470053		19670217	FR 1966-51057	19660225
GB 1129327			GB	
PRIORITY APPLN. INFO.:			IT	19650227

AB The title compds. have the general structure I where X and Y are H or halogen and R is OH, Ph, alkoxy, alkoyl, amino, alkoylamino, dialkoylamino, arylamino, arylalkoylamino, diarylamino, aralkoylamino, diaralkoylamino, polyethylene amino, or heterocyclic amino radical, or II where X and Y are H or halogen and R is -(CH₂)₂- or m-phenylene. A solution or dispersion of I or II in an organic solvent is mixed (1-2:1) with a polymer binder such as poly(vinyl alc.), poly(vinyl acetal), silicone resin, poly (acrylic acid), gelatin, methylcellulose, poly(vinyl acetate), optionally containing 30% by weight (based on I or II) plasticizer such as n-octyl adipate, 2-ethylhexyl adipate, triphenyl phosphate, dibutyl phthalate and coated (2-10 μ thickness) on a glass or metal plate such as Cu, Fe, Pb, Zn, Al, etc., to produce the electrophotographic materials. For example, 0.5 g. 6,8-dibromocarbethoxy-coumarin (Knoevenagel Ber., 31, 2585, (1898) was dissolved together with 26M (phenol-modified resin, B.A.S.F.) in 5 ml. dioxane. After centrifuging, the obtained solution was coated on an Al foil and the foil charged (5000 v.) after vaporization of the solvent, exposed to uv radiation through an original positive, and the obtained latent image was developed and fixed in a known manner.

IT 1846-94-2
 RL: USES (Uses)
 (as photoconductor for electrophotography)

RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



L4 ANSWER 108 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1967:463988 CAPLUS
 DOCUMENT NUMBER: 67:63988
 ORIGINAL REFERENCE NO.: 67:12007a,12010a
 TITLE: Malon-m-anisidic acid and some of its derivatives
 AUTHOR(S): Singhal, O. P.; Ittyerah, P. I.
 CORPORATE SOURCE: St. John's Coll., Agra, India
 SOURCE: Journal of the Indian Chemical Society (1967), 44(5),
 448-9
 CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

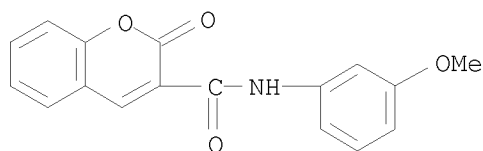
AB Et malonate (24 g.) was treated with 12.3 g. m-anisidine to give 6.3 g. malon-m-anisidic acid (I), m. 96°. Also obtained were malon-bis(m-methoxyanilide), m. 150°, Et malon-m-anisidate, and I hydrazide, m. 130°. I (1 g.) reacted with PhCHO to give benzylidenemalon-m-anisidic acid, m. 177°, and, when pyridine was used as a condensing agent, cinnam-m-anisidide, m. 124°. Heating 1 g. I and 0.58 g. salicylaldehyde in the presence of a trace of pyridine at 105° for 4 hr. gave 0.38 g. coumarin-3-carboxy-m-aniside, m. 188°. I hydrazide was treated with PhCHO to give the corresponding hydrazone, m. 190°. I was treated with other aldehydes to give the corresponding hydrazone (aldehyde and hydrazone m.p. given): o-MeOC₆H₄CHO, 162°; p-ClC₆H₄CHO, 222°; o-O₂NC₆H₄CHO, 183°; salicylaldehyde, 199°; 5-chlorosalicylaldehyde, 184°; 2-thiophenecarboxaldehyde, 158°; furfuraldehyde, 166°; acetophenone, 176°.

IT 15116-42-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

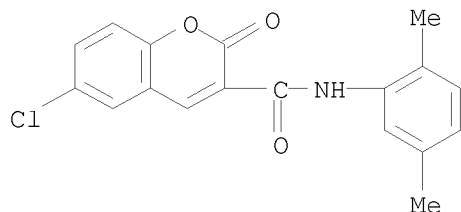
RN 15116-42-4 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3-methoxyphenyl)-2-oxo- (CA INDEX NAME)



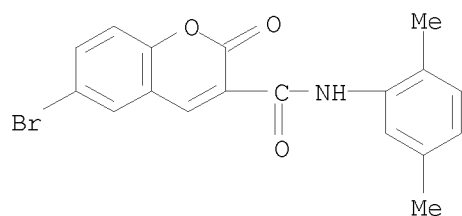
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
 (4 CITINGS)

L4 ANSWER 109 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1966:19099 CAPLUS
 DOCUMENT NUMBER: 64:19099
 ORIGINAL REFERENCE NO.: 64:3462f-h
 TITLE: Some coumarins from malono-2,5-xylic acid and substituted salicylaldehydes
 AUTHOR(S): Bhukta, M. J.; Ittyerah, P. I.
 CORPORATE SOURCE: St. John's Coll., Agra
 SOURCE: Journal of the Indian Chemical Society (1965), 42(7), 454-6
 CODEN: JICSAH; ISSN: 0019-4522
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Malono-2,5-xylic acid and a mono- or disubstituted salicylaldehyde are heated on a steambath for 4 hrs. either in the absence of any condensing agent or in the presence of a trace of pyridine, piperidine, or glacial AcOH. The product is a mixture of the coumarin (I) and the Schiff base (II). Yields for I (generally yellow or orange) are 25-60%; for II (orange to scarlet red) 25-40%. Separation is through crystallization from alc. in which I are not soluble. Melting points for I are 212° (6-Cl), 215° (6-Br), 173° (6-NO₂), 162° (6,8-di-Cl), 160° (6,8-di-Br), 150° (6,8-di-I), 190° (6,8-di-NO₂), and 155° (6-Cl-8-NO₂); and for II 85° (5-Cl), 68° (5-Br), 184° (5-NO₂), 119° (3,5-di-Cl), 150° (3,5-di-Br), 165° (3,5-di-I), 212° (3,5-di-NO₂), and 190° (5-Cl-3-NO₂). Formation of the Schiff base occurs only in the condensation of salicylaldehydes and has not been observed with aromatic aldehydes lacking an OH group ortho to the CHO group.
 IT 5188-54-5P, Coumarin, 6-chloro-3-(2,5-xylylcarbamoyl)-
 5188-55-6P, Coumarin, 6-bromo-3-(2,5-xylylcarbamoyl)-
 5188-56-7P, Coumarin, 6-nitro-3-(2,5-xylylcarbamoyl)-
 5188-60-3P, Coumarin, 6,8-dinitro-3-(2,5-xylylcarbamoyl)-
 5188-61-4P, Coumarin, 6-chloro-8-nitro-3-(2,5-xylylcarbamoyl)-
 RL: PREP (Preparation)
 (preparation of)
 RN 5188-54-5 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(2,5-dimethylphenyl)-2-oxo- (CA INDEX NAME)

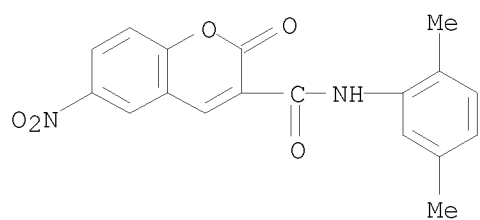


RN 5188-55-6 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(2,5-dimethylphenyl)-2-oxo- (CA INDEX NAME)

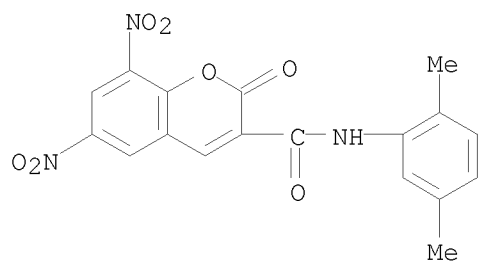
10/513699



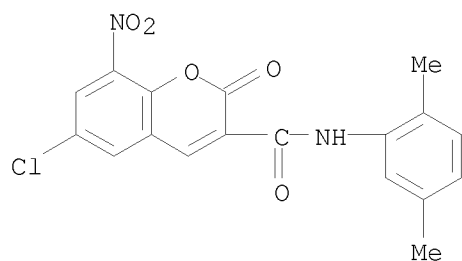
RN 5188-56-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2,5-dimethylphenyl)-6-nitro-2-oxo- (CA INDEX NAME)



RN 5188-60-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2,5-dimethylphenyl)-6,8-dinitro-2-oxo- (CA INDEX NAME)



RN 5188-61-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(2,5-dimethylphenyl)-8-nitro-2-oxo- (CA INDEX NAME)



10/513699

<12/04/2007>

Erich Leese

L4 ANSWER 110 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1966:11370 CAPLUS

DOCUMENT NUMBER: 64:11370

ORIGINAL REFERENCE NO.: 64:2045c-e

TITLE: Some new coumarins: condensation of
malono-p-pheneticidic acid with salicylaldehyde and
substituted salicylaldehydes

AUTHOR(S): Singhal, O. P.; Ittyerah, P. I.

CORPORATE SOURCE: St. John's Coll., Agra

SOURCE: Journal of the Indian Chemical Society (1965), 42(9),
616-18

CODEN: JICSAH; ISSN: 0019-4522

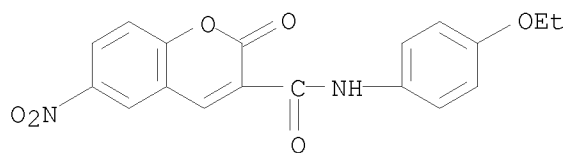
DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB A mixture of 0.56 g. o-HOC₆H₄CHO, 1.1 g. p-EtOC₆H₄NHCOCH₂CO₂H, and a
drop of pyridine was heated 10 hrs. at 100-5°, the solid mass
digested with 10 ml. saturated aqueous NaHCO₃, the solid washed with H₂O, and
boiled with 15 ml. EtOH. Concentration of the EtOH extract gave 2% I (R₁ = R₂
= H),m. 95°. Crystallization of the EtOH-insol. material yielded 48% II (R₁ =
R₂ = H), m. 210-11°. Similarly were prepared (R₁, R₂, m.p. I, and
m.p. II given): Cl, H, 144°, 218°; Cl, Cl, 132°,
235°; Br, H, 150°, 210°; Br, Br, 152°,
214°; I, I, 138°, 251°; NO₂, H, 173°,
243°; NO₂, NO₂, 242°, >300°; Cl, NO₂, 153°,
273°.IT 4487-68-7P, Coumarin, 3-[(p-ethoxyphenyl)carbamoyl]-6-nitro-
4487-70-1P, Coumarin, 3-[(p-ethoxyphenyl)carbamoyl]-6,8-dinitro-
4517-89-9P, Coumarin, 6-chloro-3-[(p-ethoxyphenyl)carbamoyl]-
4517-91-3P, Coumarin, 6-bromo-3-[(p-ethoxyphenyl)carbamoyl]-
4652-61-3P, Coumarin, 6-chloro-3-[(p-ethoxyphenyl)carbamoyl]-8-
nitro-RL: PREP (Preparation)
(preparation of)

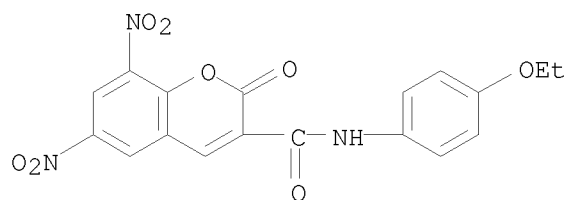
RN 4487-68-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethoxyphenyl)-6-nitro-2-oxo- (CA
INDEX NAME)

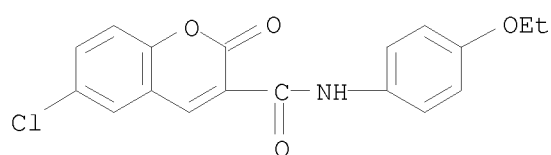
RN 4487-70-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethoxyphenyl)-6,8-dinitro-2-oxo- (CA
INDEX NAME)

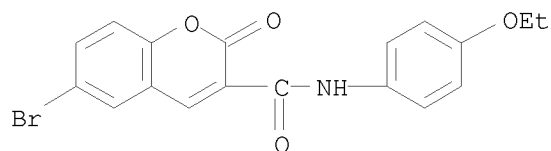
10/513699



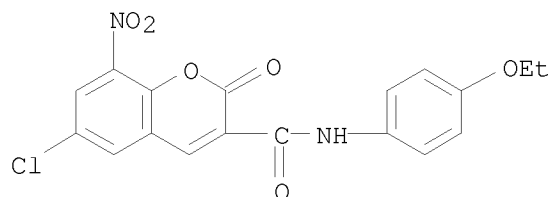
RN 4517-89-9 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-ethoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 4517-91-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-ethoxyphenyl)-2-oxo- (CA INDEX NAME)



RN 4652-61-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(4-ethoxyphenyl)-8-nitro-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L4 ANSWER 111 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1965:462887 CAPLUS

DOCUMENT NUMBER: 63:62887

ORIGINAL REFERENCE NO.: 63:11481f-h,11482a-b

TITLE: Some new 2-iminocoumarin and coumarin derivatives with antimicrobial activity

AUTHOR(S): Selleri, R.; Caldini, O.; Ferretti, G. F.

CORPORATE SOURCE: Soc. Ital.-Britannica L. Manetti, H. Roberts Co., Florence

SOURCE: Bollettino Chimico Farmaceutico (1965), 104(4), 248-53
CODEN: BCFAAI; ISSN: 0006-6648

DOCUMENT TYPE: Journal

LANGUAGE: Italian

GI For diagram(s), see printed CA Issue.

AB I are prepared by the following methods. (1) The appropriate alkyl 3-formyl-4-hydroxybenzoate (0.03 mole) was treated with 0.03 mole cyanoacetanilide in the presence of piperidine. (2) Alkyl (0.03 mole) 3-formyl-4-hydroxybenzoate was treated with 0.03 mole of the appropriately ring-substituted anilide of cyanoacetic acid in the presence of piperidine. (3) Alkyl 3-formyl-4-hydroxybenzoate (0.03 mole) was treated with 0.03 mole of the appropriate ring-disubstituted anilide of cyanoacetic acid in the presence of piperidine. (4) The imino compds. were refluxed with 5N HCl to give the corresponding ketones. Thus were prepared the following I (R', R'', X, and m.p. given): Me, NH, H, 208-9°; Me, NH, o-Cl, 224-5°; Me, NH, m-Cl, 214-15°; Me, NH, p-Cl, 216-18°; Me, NH, 2,4-Cl₂, 250°; Me, NH, 2,3-Cl₂, 243-4°; Me, NH, 2,5-Cl₂, 246°; Me, NH, 3,4-Cl₂, 235°; Me, NH, m-NO₂, 243- 5°; Me, NH, p-NO₂, 253°, Et, NH, H, 180-1°; Et, NH, o-Cl, 220-2°; Et, NH, m-Cl, 182°; Et, NH, p-Cl, 236-8°; Et, NH, 2,3-Cl₂, 225-6°; Et, NH, 2,4-Cl₂, 243-4°; Et, NH, 2,5-Cl₂, 242-3°; Et NH, 3,4-Cl₂, 210-12°; Et, NH, m-NO₂, 228-30°; Et, NH, p-NO₂, 252-5°; Me, NH, o-Br, 218-20°; Me, NH, m-Br, 220-1°; Me, NH, p-Br, 224-6°; Et, NH, o-Br, 220-2°; Et, NH, m-Br; 187-90°; Et, NH, p-Br, 235-8°; Me, O, o-Cl, 240-1°; Me, O, m-Cl, 229-30°; Me, O, p-Cl, 251-3°; Me, O, m-NO₂, 281-3°; Et, O, m-Cl, 230-1°; Et, O, p-Cl, 247-8°; Et, O, 2,4-Cl₂, 273-4°. The antimicrobial action of these compds. was determined against Staphylococcus aureus, Escherichia coli, Tricophyton mentagrophytes, and Penicillium. All the compds. were inactive against the Penicillium, whereas some compds. had activity against the other microorganisms.

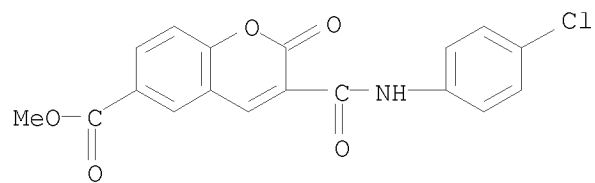
IT 3280-75-9P, 2H-1-Benzopyran-6-carboxylic acid,
3-[(p-chlorophenyl)carbamoyl]-2-oxo-, methyl ester 3287-37-4P,
2H-1-Benzopyran-6-carboxylic acid, 3-[(p-chlorophenyl)carbamoyl]-2-oxo-, ethyl ester

RL: PREP (Preparation)
(preparation of)

RN 3280-75-9 CAPLUS

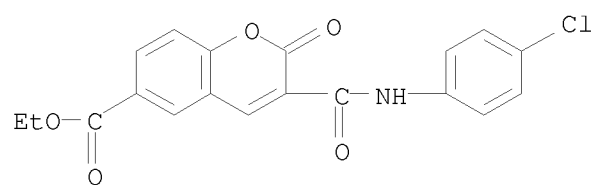
CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[4-chlorophenyl)amino]carbonyl]-2-oxo-, methyl ester (CA INDEX NAME)

10/513699



RN 3287-37-4 CAPLUS

CN 2H-1-Benzopyran-6-carboxylic acid,
3-[[4-chlorophenyl]amino]carbonyl]-2-oxo-, ethyl ester (CA INDEX NAME)



L4 ANSWER 112 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1965:41131 CAPLUS

DOCUMENT NUMBER: 62:41131

ORIGINAL REFERENCE NO.: 62:7251b-d

TITLE: Infrared absorption spectra of the coordination compounds of Sn(IV) with aliphatic diamines

AUTHOR(S): Sakenova, D. S.; Sumarokova, T. N.; Usanovich, M. I.

SOURCE: Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya

Khimicheskaya (1964), 14(3), 17-26

CODEN: IKAKAK; ISSN: 0002-3205

DOCUMENT TYPE: Journal

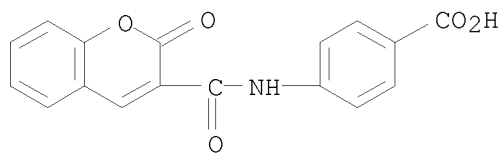
LANGUAGE: Unavailable

AB Ir spectra of the following Sn(IV) coordination compds. with aliphatic diamines, such as SnX42Z, SnX43Z, and SnX44Z (where X is Cl, Br, or I and Z is ethylene, tetramethylene, and hexamethylene diamines), were measured, 700-3500 cm.⁻¹ In the region of valence and deformation vibration of the N-H bond. all compds. have shifted bands at 3123-3270 cm.⁻¹ corresponding to the formation of a donor-acceptor bond NH . . .Sn. The bands at 2982-3216, 1535-1600, 1490-1508, 1013-1034, and 998-1007 cm.⁻¹ correspond to the valence and deformation vibrations, ν_{N+H3} , δ_{N+H3} , and ρ_{N+H3} . The ir spectra of SnX43Z and SnX44Z compds. have, besides the mentioned bands those at 3304-3420 cm.⁻¹ located in the region of valence vibrations of the N-H bond of the free NH2 group.

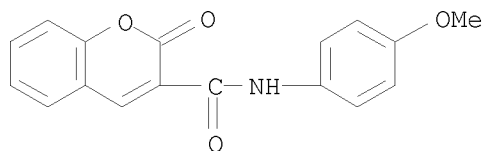
IT 1847-05-8, Benzoic acid,
p-(2-oxo-2H-1-benzopyran-3-carboxamido)-
(spectrum of)

RN 1847-05-8 CAPLUS

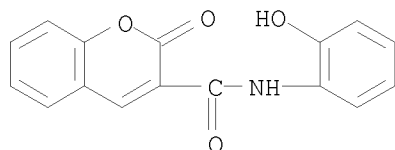
CN Benzoic acid, 4-[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 113 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1965:41130 CAPLUS
 DOCUMENT NUMBER: 62:41130
 ORIGINAL REFERENCE NO.: 62:7251b
 TITLE: Infrared spectra of certain 3-acylcoumarin derivatives
 AUTHOR(S): Bassignana, P.; Cogrossi, C.
 CORPORATE SOURCE: Lab. Rech. S.p.A., Ferrania, Italy
 SOURCE: Tetrahedron (1964), 20(12), 2859-71
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 AB Ir spectra of 69 3-acyl coumarin derivs. are recorded and analyzed, 400-4000 cm.⁻¹ Band assignments are proposed. Some absorption bands are characteristic for these coumarins, and can be used in recognizing and differentiating a coumarin structure in an unknown compound
 IT 1846-94-2, Coumarin, 3-[(p-methoxyphenyl)carbamoyl]-
 1846-95-3, Coumarin, 3-[(o-hydroxyphenyl)carbamoyl]-
 1846-96-4, Coumarin, 3-[(m-hydroxyphenyl)carbamoyl]-
 1846-97-5, Coumarin, 3-[(p-hydroxyphenyl)carbamoyl]-
 1846-98-6, Coumarin, 3-(o-tolylcarbamoyl)- 1846-99-7, Coumarin, 3-(m-tolylcarbamoyl)- 1847-00-3, Coumarin, 3-(p-tolylcarbamoyl)- 1847-02-5, Coumarin, 3-[(p-chlorophenyl)carbamoyl]- 1847-05-8, Benzoic acid, p-(2-oxo-2H-1-benzopyran-3-carboxamido)- 96168-38-6, Coumarin, 3-[[p-(phenylsulfamoyl)phenyl]carbamoyl]- (spectrum of)
 RN 1846-94-2 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)

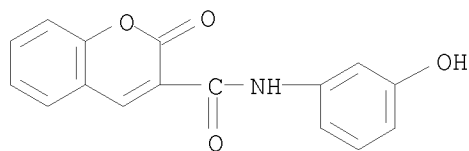


RN 1846-95-3 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, N-(2-hydroxyphenyl)-2-oxo- (CA INDEX NAME)

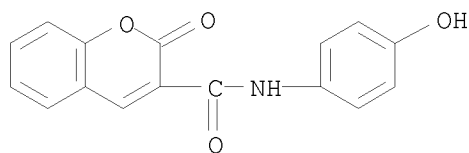


RN 1846-96-4 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, N-(3-hydroxyphenyl)-2-oxo- (CA INDEX NAME)

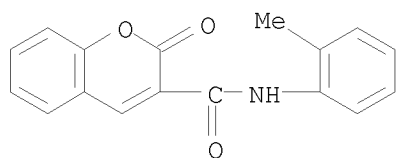
10/513699



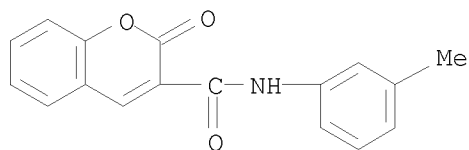
RN 1846-97-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-hydroxyphenyl)-2-oxo- (CA INDEX NAME)



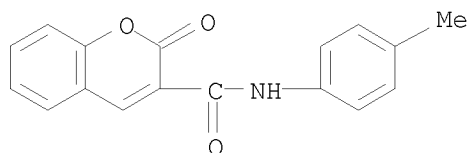
RN 1846-98-6 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1846-99-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)

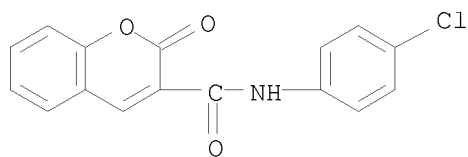


RN 1847-00-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



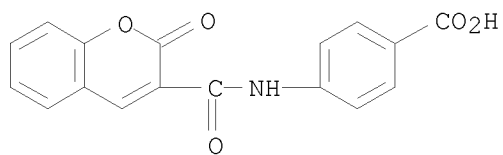
RN 1847-02-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)

10/513699



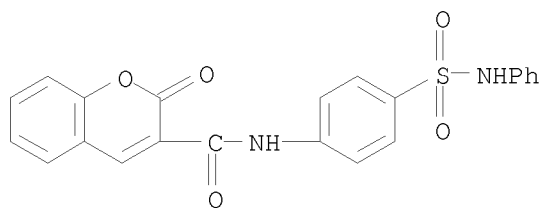
RN 1847-05-8 CAPLUS

CN Benzoic acid, 4-[(2-oxo-2H-1-benzopyran-3-yl)carbonylamino]- (CA INDEX NAME)



RN 96168-38-6 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-[4-[(phenylamino)sulfonyl]phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 3

THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

10/513699

L4 ANSWER 114 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1964:418783 CAPLUS
DOCUMENT NUMBER: 61:18783
ORIGINAL REFERENCE NO.: 61:3242e-h
TITLE: Coumarin derivatives
PATENT ASSIGNEE(S): CIBA Ltd.
SOURCE: 10 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 914719		19630102	GB 1961-2834	19610124
CH 390918			CH	
DE 1222014			DE	
PRIORITY APPLN. INFO.:			CH	19600205

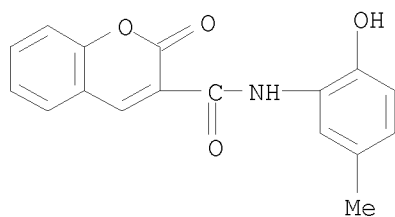
GI For diagram(s), see printed CA Issue.

AB A mixture of 38.0 parts coumarin-3-carboxylic acid and 21.8 parts o-HOC₆H₄NH₂ in 300 parts pyrophosphoric acid was stirred anaerobically at 165° for 1.5 hrs., then at 190° for 1.5 hrs., cooled to 80° and poured into 1000 parts H₂O to give 44.2 parts I, R₁ = R₂ = R₃ = R₄ = H, m. 184-5.5° (5:3 EtOH-H₂O). Similarly prepared were the following I (R₁, R₂, R₃, R₄, % yield, and m.p. given): H, H, 5-Me, H (II), 80.8, 181-2° (EtOH); H, H, 6-Me, H, 91.2, 196-7° (2:3 dioxane-H₂O); H, H, 5-Me, 6-Me, 90.7, 234-5.8° (1:1 dioxane-H₂O); H, H, 5-Cl, H, 90.2, 245-6° (4:1:1 dioxane-EtOH-H₂O); H, Me, 5-Me, H, 46.4, 163.5-4.5° (1:1 EtOH-H₂O); 6-Me, H, H, H, 86.7, 208.5-9.5° (1:1 dioxane-H₂O); 6-Me, H, 5-Me, H, 90.2, 186-6.6° (5:2 EtOH-H₂O); 6-Me, H, 6-Me, H, 90.2, 177-8° (EtOH-H₂O); 6-Me, H, 5-Me, 6-Me, 91.4, 218-20.5° (dioxane-H₂O); 6-Me, H, 5-Cl, H, 84.3, 214.4-17.5° (dioxane-EtOH); 6-Cl, H, H, H, 76.4, 228-9.2° (dioxane-H₂O); 6-Cl, H, 5-Me, H, 62.7, 223.5-4.5° (dioxane-H₂O). II was also prepared by cyclization of coumarin-3-carboxylic acid 2-hydroxy-5-methylanilide, m. >300° (HCONMe₂-EtOH). These compds. are useful as optical brighteners for polyester and polyamide fibers and for poly(vinyl chloride).

IT 94573-79-2P, Coumarin, 3-[(6-hydroxy-m-tolyl)carbamoyl]-
RL: PREP (Preparation)
(preparation of)

RN 94573-79-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(2-hydroxy-5-methylphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

<12/04/2007>

Erich Leese

10/513699

(1 CITINGS)

<12/04/2007>

Erich Leese

L4 ANSWER 115 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1964:418128 CAPLUS

DOCUMENT NUMBER: 61:18128

ORIGINAL REFERENCE NO.: 61:3058g-h,3059a-b

TITLE: Coumarin derivatives

AUTHOR(S): Lespagnol, Albert; Mercier, Jacques; Giraud, Pierre

SOURCE: Annales Pharmaceutiques Francaises (1964), 22(2),
131-6

CODEN: APFRAD; ISSN: 0003-4509

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB Some derivatives (I, R = NH₂, NMe₂, NEt₂, NhPh, NHCH₂Ph, morpholino, piperidino, pyrrolidino, or NHCONH₂) of coumarin-3-carboxylic acid were prepared, and their toxicity and analgesic activity studied. Thus, a stream of dry NH₃ was passed during 15 min. through a solution of 15 g. ethyl coumarin-3-carboxylate (I, R = OEt) in 150 cc. EtOH at 90°. The solution was allowed to cool during 24 hrs.; the precipitate was filtered off

and

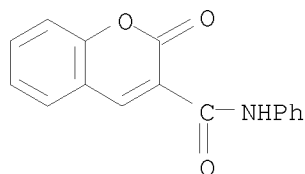
crystallized from dioxane to give 84% I (R = NH₂), m. 266°. I (R = OH) (60 g.) and 300 g. SOCl₂ was refluxed for 2 hrs. and the cooled mixture poured into 500 cc. petr. ether to give 60 g. I (R = Cl), m. 147° (C₆H₆). A mixture of 30 g. I (R = Cl), 15 g. urea, and 400 cc. C₆H₆ was heated at 100° for 2 hrs., The cooled mixture was filtered, the precipitate treated during 1 hr. with 500 cc. aqueous Na₂CO₃, filtered off, and washed with water, EtOH, and ether. The solid was crystallized from AcOH to give 20 g. I (R = NHCONH₂), m. 250° (decomposition). Other amines were allowed to react with I (R = Cl) in a suitable solvent to give the corresponding I (R, reaction solvent, crystallization solvent, m.p., and % yield given): NMe₂, ether, H₂O, 145°, 72; NEt₂, ether, 90% EtOH, 78°, 80; NHPh, dioxane, AcOEt, 248°, 74; NHCH₂Ph, CHCl₃, 90% EtOH, 154°, 75; morpholino, HCCl₃, H₂O, 123°, 88; piperidino, C₆H₆, 90% EtOH, 180°, 81; pyrrolidino, C₆H₆, H₂O, 140°, 90.

IT 54396-25-7P, Coumarin, 3-(phenylcarbamoyl)-

RL: PREP (Preparation)
(preparation of)

RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



L4 ANSWER 116 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1964:411139 CAPLUS

DOCUMENT NUMBER: 61:11139

ORIGINAL REFERENCE NO.: 61:1793a-e

TITLE: Preparation of malon-2,5-xylic acid and a study of some of its reactions

AUTHOR(S): Philip, Abraham; Ittyerah, P. I.

CORPORATE SOURCE: St. John's Coll., Agra

SOURCE: Indian Journal of Applied Chemistry (1963), 26(5-6), 168-70

CODEN: IJACAN; ISSN: 0019-5065

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB 2,5- Xylidine (10 g.) and 20 g. CH₂(CO₂Et)₂ refluxed 45 min., allowing the alc. to dist. and the malonate to flow back, cooled, and mixed with alc. gave 9.8 g. malondi(2,5-xylicide) (I), m. 231°, and 10 g. 2,5-Me₂C₆H₃NHCOCH₂CO₂H (II), m. 155° (decomposition). Effects of variations induration of heating and in the mol. proportion of the amine and ester were studied and the maximum yield of the products was obtained as described above. In another experiment, after refluxing the mixture of amine

and

malonic ester and removing I, 4 g. Et malon-2,5-xylicide (III), m. 130°, was obtained. III (2 g.) in 10 ml. alc. added slowly to 25 ml. ammonia liquor and kept 1 hr. gave 2 g. malon-2,5-xylicide, m. 192°. III (2 g.) in alc. treated 10 min. with 3 ml. N₂H₄.H₂O gave malon-2,5-xylic acid hydrazide, m. 234°. The general method for the preparation of malon-2,5-xylic acid hydrazones consisted of mixing equimolar amts. of the carbonyl compound and the acid hydrazide in alc., and keeping 0.5 hr. or refluxing for 1 hr. Thus were prepared >50% IV (carbonyl compound and m.p. given): BzH, 234°; 3,5-dibromosalicylaldehyde, 226°; 3,5-dinitrosalicylaldehyde, 97°; 3-nitro-5-chlorosalicylaldehyde, 192°; piperonal, 207°; 2-thiophenecarboxaldehyde, 186°; PhCOMe, 215°. The hydrazone from MeCOEt could not be prepared BzH (0.5 g.) and 1 g. II heated 4 hrs. at 100° gave 0.65 g. benzylidenemalon-2,5xylic acid (V), m. 218°, and 0.25 g. cinnam-2,5-xylic acid (VI), m. 185° (alc.). On using AcOH as a condensing agent, 53% V and 45% VI were obtained. With a trace of C₅H₅N or piperidine there was complete decarboxylation to 85% VI. Heating equimol. amts. of salicylaldehyde and II 4 hrs. at 100° gave the 2,5-xylicide (VII) of coumarin-3-carboxylic acid, m. 193°, and 2-hydroxybenzal-2,5-xylicide (VIII), m. 96°. Condensation of salicylaldehyde and 2,5-xylicide gave VIII. Maximum yield of VII (25%) was obtained when a trace of C₅H₅N or piperidine was used as a condensing agent. Heating a mixture of 0.8 g. chloral hydrate and II 4 hrs. at 100° gave 34% γ-trichloro-croton-2,5 xylicide, m. 84°.

IT 94905-44-9P, Coumarin, 3-(2,5-xylylcarbonyl)-

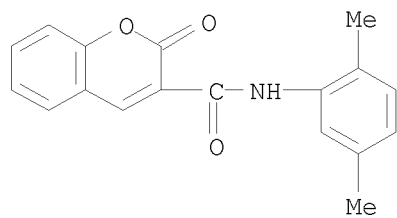
RL: PREP (Preparation)

(preparation of)

RN 94905-44-9 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(2,5-dimethylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



<12/04/2007>

Erich Leese

L4 ANSWER 117 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1964:45494 CAPLUS

DOCUMENT NUMBER: 60:45494

ORIGINAL REFERENCE NO.: 60:7950h,7951a-b

TITLE: p-Iodomalonanilic acid and derivatives

AUTHOR(S): Asthana, B. P.; Ittyerah, P. I.

CORPORATE SOURCE: St. Johns Coll., Agra, India

SOURCE: Agra Univ. J. Res. (1963), 12(2), 81-5

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB p-Iodomalonanilic acid (I) was prepared and treated with aldehydes. A mixture of 5 g. of p-IC₆H₄NH₂ and 8 g. Et malonate was heated at reflux 1 h. with EtOH distilling as formed. On addition of 50 mL. absolute EtOH a crystallization precipitate of malonbis(p-iodoanilide) was formed, m. 256°. A solution of 5 g. Na₂CO₃ in 40 mL. H₂O was added to the solution, steam passed through the solution 1 h. and the solution filtered and acidified with concentrated HCl to yield

4.6 g. I, m. 162° (decomposition). A mixture of 2 g. I and 0.7 g. BzH was heated on a steam bath 4 h., dissolved in aqueous Na₂CO₃ and washed with Et₂O, and acidified with concentrated HCl to give 1.7 g.

benzylidene-p-iodomalonanilic

acid, m. 214° (decomposition). Heating a mixture of I and BzH containing a small amount of pyridine produced cinnam-p-iodoanilide, m. 190°.

Similarly were prepared the following: 2-thenylidene-p-iodomalonanilic acid (II), m. 224°; 2-thienyl-p-acryl-p-iodoanilide (byproduct in preparation of II), m. 197°; o-chlorobenzylidene-p-iodomalonanilic acid (III), m. 205°; o-chlorocinnam-p-iodoanilide (byproduct in preparation of III), m. 186°. Heating a mixture of 0.8 g. salicylaldehyde, 2 g. I, and 1 drop pyridine 4 h. gave 0.4 g. salicylidene-p-iodoaniline, m. 131°; and 0.6 g. coumarin-3-carboxy-p-iodoanilide (IV), m. 236°.

3,5-Dichlorosalicylaldehyde and I reacted to give only

3,5-dichlorosalicylidene-p-iodoaniline, m. 190°.

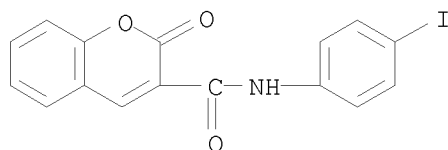
IT 92792-09-1P, Coumarin, 3-[(p-iodophenyl)carbamoyl]-

RL: PREP (Preparation)

(preparation of)

RN 92792-09-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-iodophenyl)-2-oxo- (CA INDEX NAME)



L4 ANSWER 118 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1959:106773 CAPLUS

DOCUMENT NUMBER: 53:106773

ORIGINAL REFERENCE NO.: 53:19158e-i

TITLE: Coumarin derivatives for therapeutic use. XIII.
Hypothermal action. 2

AUTHOR(S): Kitagawa, Haruo; Iwaki, Riichiro

CORPORATE SOURCE: Univ. Toyama

SOURCE: Yakugaku Zasshi (1959), 79, 639-43

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C.A. 52, 18874b. 6-Chlorocoumarin (I) (0.5 g.) at its m.p. treated portionwise with 0.22 g. P2S5 and the product extracted with Et2O gave 0.3 g. 6-chloro-2-thiocoumarin (II), needles, m. 196° (50% EtOH). 6-Aminocoumarin (III) (0.65 g.) and 0.8 g. o-HOC6H4CO2H in 80 ml. Me2CO kept over night to give 1.05 g. III salicylate, needles, m. 108-10° (H2O). Coumarin-3-carboxylic acid (IV) (0.5 g.) in 40 ml. EtOH treated with 0.36 g. p-phenetidine to give 0.65 g. p-phenetidine coumarin-3-carboxylate, needles, m. 134-5° (C6H6). IV (9.5 g.) and 8 g. III in MeOH-Me2CO (1:1) concentrated and the product recrystd. from this solvent gave 12.5 g. III coumarin-3-carboxylate (V), needles, m. 145-7°. V (0.5 g.) in a sealed tube heated 2 hrs. at 190-200°, the product washed with Me2CO and recrystd. (CHCl3) gave 0.2 g. N-(6-coumarinyl)coumarin-3-carboxylate, needles, m. 296°. IV (1 g.) and 0.92 g. 4-methyl-7-aminocoumarin (VI) in Me2CO-EtOH (1:4) concentrated to give 1.7 g. 4-methyl-7-coumarinylamine coumarin-3-carboxylate, needles, m. 158-60°. 4-Hydroxycoumarin (VII) (1.3 g.) in 20 ml. EtOH and 0.7 g. vanillin in EtOH-H2O (2:3) refluxed 40 min. to give 0.3 g. 4-hydroxy-3-(α -hydroxy-3-methoxy-4-hydroxybenzyl)coumarin, m. 132° (EtOH). Hypothermic action of these compds. and derivs. were examined by a screening test on rats. 2-Thiocoumarin and II, a derivative of I which have comparatively strong effect, had only a weak effect. III.HCl had the strong effect but the action was not potentiated by converting it to a salicylate. Chromone-2-carboxylic acid had a weaker effect than chromone but did not have such strong toxicity as IV. Of the salts of IV with PhNH2, phenetidine, III, and VI, and acid amides with NH3, PhNH2, phenetidine, and III, the salt with III had the strongest action with longest duration of the effect. Of the halogenated coumarins, those with Cl in 3- and 6-position had a strong activity, while introduction of a Me in 4-position weakened the activity. In the derivs. of VII condensed with aldehyde at 3-position, the vanillin condensate had the strongest effect, while those formed by condensation with chloral hydrate and antipyrine-4-aldehyde had effect similar to that of VII.

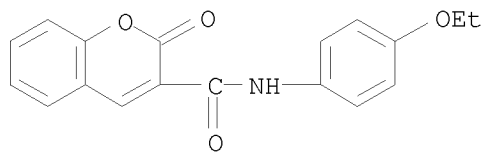
IT 4527-55-3, Coumarin, 3-[(p-ethoxyphenyl)carbamoyl]-

54396-25-7, Coumarin, 3-phenylcarbamoyl-

(hypothermal action of)

RN 4527-55-3 CAPLUS

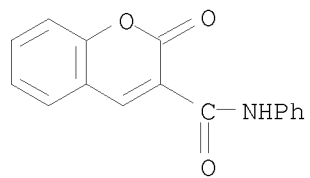
CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethoxyphenyl)-2-oxo- (CA INDEX NAME)



10/513699

RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 4

THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

L4 ANSWER 119 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1958:77138 CAPLUS

DOCUMENT NUMBER: 52:77138

ORIGINAL REFERENCE NO.: 52:13675f-h

TITLE: Condensation of o-, m-, and
p-chloromalonanilic acids with aldehydes. II. With
o- and p-methoxybenzaldehydes and
m-methylbenzaldehyde

AUTHOR(S): George, M. V.; Ittyerah, P. I.

CORPORATE SOURCE: St. Johns Coll., Agra, India

SOURCE: Agra Univ. J. Research (1955), 4(Pt. 2), 555-8

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The condensations were carried out in the same way and the same types of products were obtained as described in the preceding abstract except no coumarin derivs. were obtained. The following condensation products were obtained [aldehyde and m.p. and % yield of the o-, m-, and p-chloromalonanilic acids (the corresponding chlorocinnamanilide in parentheses) given]: o-MeOC₆H₄CHO, 184.5° (decomposition), 70.8 (126°, 89), 232° (decomposition), 70.8 (127°, 89.1), 225° (decomposition), 74 (182°, 96.5); p-MeOC₆H₄CHO, 206° (decomposition), 70.8 (157°, 96.5), 198° (decomposition) 64.4 (131°, 89.1), 208.5° (decomposition), 64.4 (176°, 96.5); m-MeC₆H₄CHO, 187° (decomposition), 74.4 (104°, 90.4), 177° (decomposition), 67.6 (-, -), 202° (decomposition), 88 (176°, 90.4).

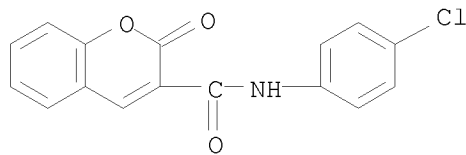
IT 1847-02-5P, Coumarin, 3-[[p-chlorophenyl]carbamoyl]-

RL: PREP (Preparation)

(preparation of)

RN 1847-02-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)



L4 ANSWER 120 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1958:77137 CAPLUS

DOCUMENT NUMBER: 52:77137

ORIGINAL REFERENCE NO.: 52:13675b-f

TITLE: Condensation of o-, m-, and p-chloromalonanilic acids with aldehydes. I. With benzaldehyde and o-, m-, and p-hydroxybenzaldehydes

AUTHOR(S): George, M. V.; Ittyerah, P. I.

CORPORATE SOURCE: St. Johns Coll., Agra, India

SOURCE: Agra Univ. J. Research (1955), 4(Pt. 2), 551-4

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB Chloromalonanilic acids were condensed with PhCHO or o-, m-, or p-HOC6H4CHO to give arylidene chloromalonanilic acids (uncatalyzed condensation or HOAc catalyst) or chlorocinnamanilides (organic base catalyzed condensation). m-HOC6H4CHO gave higher yields of condensation product than the o- or p-isomers. o-HOC6H4CHO gave a coumarin derivative. Thus, equimolar amts. of the acid and aldehyde were mixed, catalyst (1 molar proportion of HOAc or 0.15 of organic bases) added, and the mixture heated 4 hrs. on an H2O bath. The acid products were extracted with aqueous NaHCO3 while the nonacidic products were purified by recrystn. from EtOH or Me2CO. The NaHCO3 extract was acidified and the solids recrystd. from EtOH or Me2CO. Condensation with o-HOC6H4CHO yielded no NaHCO3 extract. The residue was extracted with hot EtOH to remove (2-hydroxybenzal)chloroanilines (deep yellow or orange), and then recrystd. from HOAc to give the coumarin. The following X-benzylidene-Y-chloroanilic acids were prepared (X, Y, m.p., and % yield given); -, o, 189° (decomposition), 92; -, m, 197.5° (decomposition), 70; -, p, 225° (decomposition), 81; m-OH, o, 189° (decomposition), -; m-OH, m, 192° (decomposition), -; m-OH, p, 221° (decomposition), -; p-OH, o, 205° (decomposition), -; p-OH, m, 202° (decomposition), -; p-OH, p, 226° (decomposition), -; The following Y-chloro-X-cinnamanilides were prepared (X, Y, m.p., and % yield given); -, o, 138°, 99; -, m, 120°, 90; -, p, 185.5°, 97; m-OH, o, 173°, -; m-OH, m, 190°, -; m-OH, p, 208°, -; p-OH, o, 184.5°, -; p-OH, m, 200°, -; p-OH, p, 223°, -. The (2-hydroxybenzal)-o-, m-, and p-chloroanilines m. 86°, 95°, and 106°, resp. The coumarin-3-carboxy-o-, m-, and p-chloroanilides m. 230°, 240°, and 250°, resp.

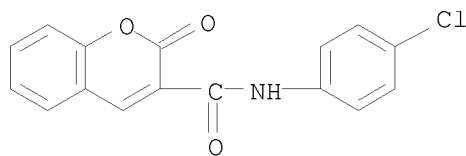
IT 1847-02-5P, Coumarin, 3-[[p-chlorophenyl]carbamoyl]-

RL: PREP (Preparation)

(preparation of)

RN 1847-02-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-chlorophenyl)-2-oxo- (CA INDEX NAME)



10/513699

<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 121 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1957:86480 CAPLUS

DOCUMENT NUMBER: 51:86480

ORIGINAL REFERENCE NO.: 51:15699h-i,15700a

TITLE: Synthetic compounds active against
Salmonella-dysentery group bacilli

AUTHOR(S): Akiya, Shichiro

CORPORATE SOURCE: Univ. Tokyo

SOURCE: Japanese Journal of Experimental Medicine (1956), 26,
91-112

CODEN: JJEMAG; ISSN: 0021-5031

DOCUMENT TYPE: Journal

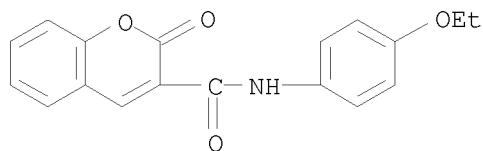
LANGUAGE: Unavailable

AB Synthetic organic compds. (1028) were tested for their in vitro antibacterial activities against *Micrococcus pyogenes* var. *aureus*, *Escherichia coli* Number 1, *Shigella dysenteriae* Ewing I, *Shigella paradysenteriae* 2a, *Salmonella typhosa* S 57, *S. paratyphi* A 1015, and *S. enteritidis* 5168. Of these compds. 436 were effective at 10-4M against at least one of the organisms. Active compds. comprised hydrazone derivative of 5-nitrofurfural, benzoquinone and naphthoquinone derivs., alkyl and acyl resorcinols, N-containing heteroarom. quaternary bases, aminodibenzofurans, hydrazones of pyridine derivs., aromatic aldazines, tricarbonylmethane derivs., and others.

IT 4527-55-3, Coumarin, 3-[(p-ethoxyphenyl)carbamoyl]-
(bactericidal action of)

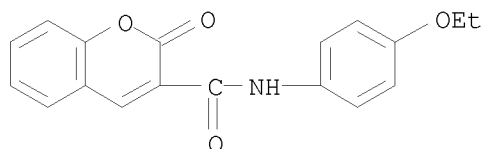
RN 4527-55-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethoxyphenyl)-2-oxo- (CA INDEX NAME)

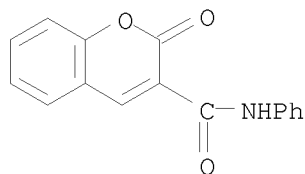


OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

L4 ANSWER 122 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1956:56896 CAPLUS
 DOCUMENT NUMBER: 50:56896
 ORIGINAL REFERENCE NO.: 50:10715h-i,10716a
 TITLE: Syntheses of coumarin derivatives. VIII. Sedative and hypnotic activities of coumarin-3-carboxylic acid derivatives
 AUTHOR(S): Ichibagase, Hisashi
 CORPORATE SOURCE: Univ. Nagasaki
 SOURCE: Yakugaku Zasshi (1955), 75, 1486-9
 CODEN: YKKZAJ; ISSN: 0031-6903
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Soporific and sedative actions and toxicity of 25 kinds of coumarin-3-carboxylic acid derivs. were examined Esters showed some efficacy and the effect is stronger in alkyl esters (XVIII) than in Ph esters. In XVIII, the activity became weaker with the increase in the size of the alkyl group and in the same alkyl group, the normal were weaker than the iso derivs. Compds. -CONHR (R = aromatic residue or ureido group) were ineffective and devoid of toxicity. III, XII, and XI showed loss of efficacy and toxicity. VIII, XIV, and XV also showed loss of sedative and soporific activities but not of toxicity, which appeared gradually over a few days.
 IT 4527-55-3, Coumarin, 3-[(p-ethoxyphenyl)carbamoyl]-
 54396-25-7, Coumarin, 3-phenylcarbamoyl- 111947-24-1,
 Benzoic acid, p-(2-oxo-2H-1-benzopyran-3-carboxamido)-, ethyl ester
 301818-26-8, Coumarin, 6-nitro-3-phenylcarbamoyl-
 (sedative and hypnotic activity of)
 RN 4527-55-3 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethoxyphenyl)-2-oxo- (CA INDEX NAME)

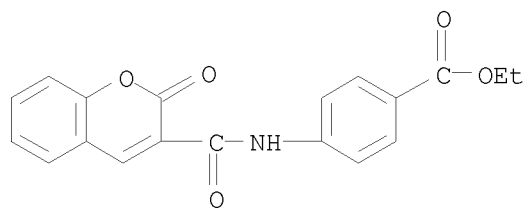


RN 54396-25-7 CAPLUS
 CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



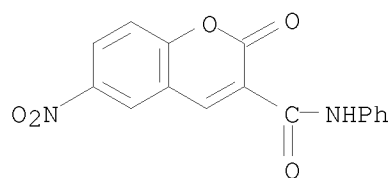
RN 111947-24-1 CAPLUS
 CN Benzoic acid, 4-[[2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)

10/513699



RN 301818-26-8 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-nitro-2-oxo-N-phenyl- (CA INDEX NAME)



<12/04/2007>

Erich Leese

L4 ANSWER 123 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1955:84072 CAPLUS

DOCUMENT NUMBER: 49:84072

ORIGINAL REFERENCE NO.: 49:15790g-i,15791a-b

TITLE: Condensation of aromatic aldehydes with malonic-1,3,4-xylidic acid. III. With halogen and nitro substituted salicylaldehydes

AUTHOR(S): Prakash, Sant; Ittyerah, P. I.

CORPORATE SOURCE: St. Johns' Coll., Agra

SOURCE: Agra Univ. J. Research (1954), 3, 481-8

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB 6-Chlorocoumarin-3-carboxy-1,3,4-xylidide (I) and 2-hydroxy-5-chlorobenzylidene-1,3,4-xylidine (II) obtained in 0.2 g. and 0.3 g. yield, resp., by treating 1.9 g. malon-1,3,4-xylidic acid (III) with 1.7 g. 5-chlorosalicylaldehyde at 100° for 4 hrs., extracted with NaHCO₃ and the residue washed with hot alc. gave I, m. 216°. Cooling the alc. washings, deposited II, m. 110° (from alc.), violet color with FeCl₃. Repeating the above but using pyridine, yielded 0.8 g. I, and 0.4 g. II; with piperidine, yielded 0.4 g. I and 0.3 g. II. 6,8-dichlorocoumarin-1,3,4-xylidide (IV), m. 230° and 2-hydroxy-3,5-dichlorobenzal-1,3,4-xylidine (V), m. 110° was obtained in 0.2 g. and 0.3 g. yield, resp., by treating 1.2 g. III with 1.0 g. 3,5-dichlorosalicylaldehyde, and extraction in the same manner. Repeated with pyridine, yielded 0.8 g. IV and 0.5 g. V; with piperidine, there was resin formation. 6-Bromocoumarin-3-carboxy-1,3,4-xylidide (VI), m. 205° and 2-hydroxy-5-bromobenzal-1,3,4-xylidine (VII), m. 85° obtained in 0.9 g. and 0.5 g. yield, resp., by treating 2.2 g. III with 2 g. of 5-bromosalicylaldehyde and 2 drops of pyridine and extraction in the same manner. VI decolorized alkaline KMnO₄ and Br-H₂O [bromo derivative,

m. 270°; Hg derivative, m. 230° (decompose)].

6,8-Dibromocoumarin-3-carboxy-1,3,4-xylidide (VIII), m. 225° and 2-hydroxy-3,5-dibromobenzal-1,3,4-xylidine (IX), m. 101° obtained in 1 g. and 0.7 g. yield, resp., by treating 2 g. III with 2 g.

3,5-dibromosalicylaldehyde and 2 drops pyridine.

6-Nitrocoumarin-3-carboxy-1,3,4-xylidide (X), m. 230° and 2-hydroxy-5-nitrobenzal-1,3,4-xylidine (XI), m. 167° was obtained by treating 2 g. III with 2 g. 5-nitrosalicylaldehyde and 2 drops of pyridine. When 3-nitrosalicylaldehyde was used instead of the 5-nitro compound, there was obtained 8-nitrocoumarin-3-carboxy-1,3,4-xylidide (XII), m. 255° and 2-hydroxy-3-nitrobenzal-1,3,4-xylidine (XIII).

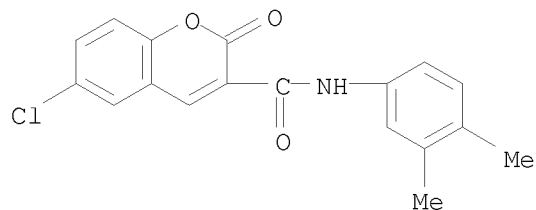
IT 854903-16-5P

RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Condensation of aromatic aldehydes with malonic-1,3,4-xylidic acid.
III. With halogen and nitro substituted salicylaldehydes)

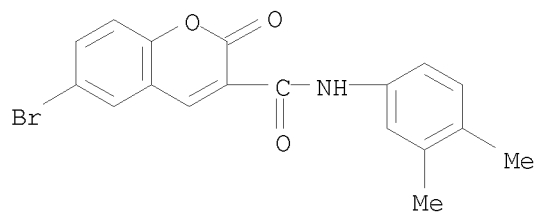
RN 854903-16-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(3,4-dimethylphenyl)-2-oxo- (CA INDEX NAME)

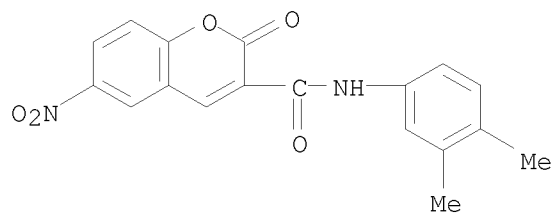
10/513699



IT 325807-55-4, Coumarin, 6-bromo-3-(3,4-xylylcarbamoyl)-
(and derivs.)
RN 325807-55-4 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(3,4-dimethylphenyl)-2-oxo- (CA
INDEX NAME)

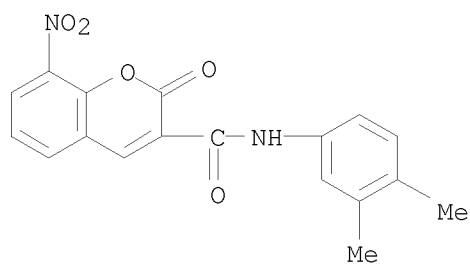


IT 326884-94-0P, Coumarin, 6-nitro-3-(3,4-xylylcarbamoyl)-
854907-27-0P, Coumarin, 8-nitro-3-(3,4-xylylcarbamoyl)-
RL: PREP (Preparation)
(preparation of)
RN 326884-94-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethylphenyl)-6-nitro-2-oxo- (CA
INDEX NAME)



RN 854907-27-0 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethylphenyl)-8-nitro-2-oxo- (CA
INDEX NAME)

10/513699



OS.CITING REF COUNT: 1

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 124 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1955:84071 CAPLUS

DOCUMENT NUMBER: 49:84071

ORIGINAL REFERENCE NO.: 49:15790d-g

TITLE: Condensation of aromatic aldehydes with malonic-1,3,4-xylic acid. II. With o-, m- and p-hydroxybenzaldehydes, o-, m-, and p-methoxybenzaldehydes, piperonal, vanillin, veratraldehyde, and 5-bromovanillin

AUTHOR(S): Ghatak, S.; Prasad, Jwala; Ittyerah, P. I.

CORPORATE SOURCE: St. Johns' Coll., Agra

SOURCE: Agra Univ. J. Research (1954), 3, 489-92

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

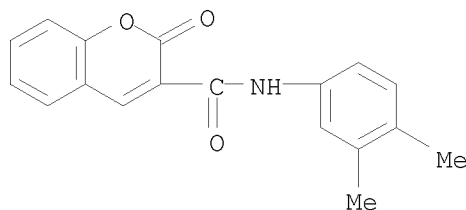
AB cf. C.A. 49, 933c. Malon-1,3,4-xylic acid was condensed with the above mentioned aldehydes. A trace of pyridine or piperidine catalyzed the reaction; glacial AcOH was excellent for veratraldehyde. With the exception of m-MeOC₆H₄CHO, 3,4-MeO(HO)C₆H₃CHO and 5-bromovanillin which gave only the corresponding cinnam-1,3,4-xylic acid, all other aldehydes gave 2 products each (1) the corresponding benzylidenemalon-1,3,4-xylic acid and (2) the corresponding cinnam 1,3,4-xylic acid. o-HOC₆H₄CHO gave coumarin-3-carboxy-1,3,4-xylic acid. The general procedure consisted of mixing equimolar quantities of the acid and aldehyde using 0.15 mol of catalyst, heated 4 h., extracted with NaHCO₃, the extract washed with Et₂O, excess concentrated HCl added to precipitate acid, recrystd. from EtOH or Me₂CO and the

residue from the alkaline extract recrystd. from EtOH. Thus were obtained the following (m.p., % yield given) derivative of benzylidenemalon-1,3,4-xylic acid: m-HO, 200°, 50; p-HO, 223°, 50; o-MeO, 214°, 41.5; p-MeO, 222° 23; 3,4-methylenedioxy, 213, 22.5; 3,4-(MeO)₂, 216°, 41.5. Also the following cinnam-1,3,4-xylic acid: m-HO, 218°, 94.7; p-HO, 220°, 67.8; o-MeO, 152°, 95.7; m-MeO, 154° 71; p-MeO, 198° 3,4-methylenedioxy, 204° 49.1; 3,4-(MeO)₂, 181° 81.5; 3,4-MeO(HO), 154°, 27.9; 3,4,5-MeO(HO)Br, 196° 16.5.

IT 304887-43-2P, Coumarin, 3-(3,4-xylylcarbonyl)-
854903-16-5P, Coumarin, 6-chloro-3-(3,4-xylylcarbonyl)-
RL: PREP (Preparation)
(preparation of)

RN 304887-43-2 CAPLUS

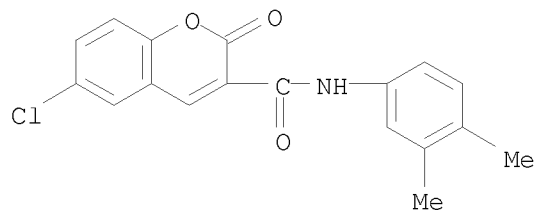
CN 2H-1-Benzopyran-3-carboxamide, N-(3,4-dimethylphenyl)-2-oxo- (CA INDEX NAME)



RN 854903-16-5 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-chloro-N-(3,4-dimethylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



OS.CITING REF COUNT:

1

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 125 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1955:53737 CAPLUS
 DOCUMENT NUMBER: 49:53737
 ORIGINAL REFERENCE NO.: 49:10378e-i,10379a-d
 TITLE: Substituted coumarin-3-carboxylic acid and derivatives
 INVENTOR(S): Schlesinger, Albert; Weiner, Nathan; Gordon, Samuel M.
 PATENT ASSIGNEE(S): Endo Products, Inc.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2683720		19540713	US 1949-133212	19491215

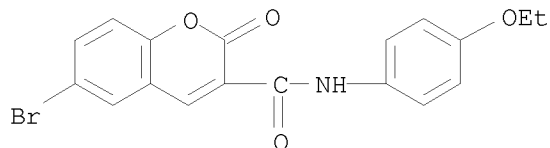
AB A series of compds. possessing activities as analgesics and central depressants were prepared 5,2-Br(HO)C₆H₃CHO (380 g., 1.9 mol) in 800 mL. 10% NaOH solution diluted with 1000 mL. H₂O, the mixture warmed to 40°, the clear stirred solution treated with 1.25 l. freshly prepared CH₂(CN)CO₂Na solution (2.65 mol), the mixture heated 5 min. at 40°, left 12 h. at room temperature, acidified to Congo red with concentrated HCl, an addnl. 600 mL. 4% HCl added, the mixture of precipitated 5,2-Br(HO)C₆H₃CH:C(CN)CO₂H which heated 2 h. at 75-85° and 2 min. at 95-100°, cooled, and the 6-bromocoumarin-3-carboxylic acid (I) filtered off, washed 3 times with 100 mL. cold H₂O, 5 times with 60 mL. cold EtOH, and finally with 50 mL. Et₂O gave 303 g. (60%) I, m. 200° (from EtOH). Also prepared were the following coumarin-3-carboxylic acids: 6,8-di-Br (II), m. 224-5° (from EtOH); 8-MeO (III), m. 215° (from Me₂CO-H₂O); 8-allyl (IV), m. 147° (from Me₂CO-H₂O); 6-nitro (V), m. 236° (from dioxane-H₂O), prepared from coumarin-3-carboxylic acid with fuming HNO₃ in the cold; 6-diethylaminomethyl-8-methoxy (VI), m. 207.5° (from dioxane-H₂O), prepared from III with Et₂NH and HCHO in the cold; 6-piperidinomethyl-8-methoxy (VII), m. 236° (crystallized from 5% HCl and washed with Me₂CO). Et₂NCH₂CH₂OH (5.85 g., 0.05 mol) in 100 mL. dry C₆H₆ added quickly with stirring to 14.3 g. (0.05 mol) of the acid chloride of I suspended in 100 mL. dry C₆H₆, the mixture refluxed 4 h., cooled, and the precipitated I diethylaminoethyl ester HCl salt filtered off, washed with hexane, and dried in vacuo yielded 17.2 g. (85%) product, m. 215° (from EtOH). The free base, recrystd. from 50% Me₂CO, m. 115°. Other ester HCl salts of I prepared were: Et₂N(CH₂)₃, m. 221° (from EtOH) [base, m. 105° (from 50% Me₂CO)]; Bu₂N(CH₂)₃, m. 135° (from C₆H₆ and C₆H₁₄) [base, m. 105° (from 50% Me₂CO)]; (PhCH₂)₂N(CH₂)₂, m. 197° (from 50% EtOH) [base, m. 145° (from Me₂CO)]; (BuCH₂CH₂)N(CH₂)₂, m. 105° (from C₆H₆-C₆H₁₄); EtNH(CH₂)₂, m. 205.5° (from EtOH-H₂O); BuNH(CH₂)₂, m. 183° (from EtOH). Ester HCl salts of II: Me₂N(CH₂)₂, m. 235° (from EtOH); Et₂N(CH₂)₂, m. 191° (from EtOH); Et₂N(CH₂)₃, m. 186.5° (from EtOH); Et₂NCH₂CH₂CH:CHCH₂, m. 121° (from EtOH-Et₂O); Bu₂N(CH₂)₂, m. 210° (from 50% EtOH) [base, m. 132.5° (from Me₂CO.)]. Ester HCl salts of III: Et₂N(CH₂)₂, m. 198° (from EtOH); Et₂N(CH₂)₃, m. 181° (from EtOH); Bu₂N(CH₂)₂, m. 207.5° (from CHCl₃-C₆H₁₄) [base, m. 127° (from Me₂CO)]. Ester HCl salts of IV: Et₂N(CH₂)₂, m. 168° (from EtOH-Et₂O); Et₂N(CH₂)₃, m. 153° (from EtOH-Et₂O);

Bu₂N(CH₂)₂, m. 174° (from EtOH-Et₂O). Ester HCl salts of V: Et₂N(CH₂)₂, m. 207° (from EtOH) [base, m. 122° (from 50% EtOH)]. 2-Morpholinoethyl ester HCl salts of I, m. 238° (from EtOH-Et₂O) [base, m. 133.5° (from 50% Me₂CO)]; I Et ester, m. 170° (from MeOH); VI Me ester, m. 217° (from Me₂CO-H₂O); VII Et ester, m. 231° (from Me₂CO-H₂O-Et₂O); VII Bu ester, m. 216.5° (from Me₂CO-H₂O-Et₂O). Ester HCl salts of VII: Et₂N(CH₂)₂, m. 215° (from 70% EtOH); Et₂N(CH₂)₃, m. 225° (from 70% EtOH); β-2-piperidinoethyl, m. 212° (from 70% EtOH). Amides were prepared by treating 1 equivalent acid chloride with 2 equivs. amine in refluxing H₂O. N-Substituted amides of I (substituents given): di-Et, m. 161° (from EtOH); allyl, m. 197° (from EtOH); p-EtOC₆H₄, m. 211° (from PhMe); di-Bu, m. 143° (from EtOH-H₂O); di-PhCH₂, m. 209° (from dioxane-H₂O). Amides of II: di-Et, m. 174° (from EtOH); di-Bu, m. 142° (from EtOH-H₂O); di-PhCH₂, m. 188.5° (from dioxane-H₂O). Amide of IV: di-Et, m. 92.5° (from MeOH). V (11.75 g., 0.05 mol) in 250 mL. dioxane hydrogenated in the presence of 0.2 g. 10% Pd-C catalyst at an initial pressure of 50 lb./sq. in. gave 9 g. (88%) 6-aminocoumarin-3-carboxylic acid (VIII), m. 205° (from C₆H₆-C₆H₁₄). Similarly, V Et₂N(CH₂)₂ ester-HCl gave VIII Et₂N(CH₂)₂-HCl, m. 210° (from 85% EtOH).

IT 4517-91-3P, Coumarin, 6-bromo-3-[(p-ethoxyphenyl)carbamoyl]-
RL: PREP (Preparation)
(preparation of)

RN 4517-91-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-(4-ethoxyphenyl)-2-oxo- (CA
INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 126 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1955:11887 CAPLUS

DOCUMENT NUMBER: 49:11887

ORIGINAL REFERENCE NO.: 49:2375g-i, 2376a-c

TITLE: Condensation of aromatic aldehydes with malon-o-, m-, p-toluidic acids. I. With benzaldehyde, o-, m-, p-hydroxy- and -methoxybenzaldehydes

AUTHOR(S): Ittyerah, P. I.; Pandya, Kantilal C.

CORPORATE SOURCE: St. John's Coll., Agra

SOURCE: Journal of the Indian Chemical Society (1953), 30, 717-19

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. CA. 36, 1917.9. Equimol. quantities of RC6H4CHO (I) and R'C6H4NHCOCH2CO2H (II) (Chattaway and Olmsted, C.A. 4, 2288), heated 1-4 h. at 100°, the mixture extracted with concentrated NaHCO3, and the alkaline solution

acidified with concentrated HCl gave the RC6H4CH:C(CO2H)CONHC6H4R' (III). Recrystn. of the alkali-insol. residue from EtOH, Me2CO, or C6H6 gave small quantities of the RC6H4CH:CHCONHC6H4R' (IV). When the condensation was carried out in the presence of 0.15 mol C5H5N or piperidine as a catalyst, IV was the main product, together with small quantities of III. The following III were prepared (R, R', m.p., and % yield given): H, o-Me, 201°, 92.8; H, m-Me, 196, 74.7; H, p-Me, 228°, 78.3; m-HO, o-Me, 210°, 50.5; m-HO, m-Me, 181°, 53.8; m-HO, p-Me, 216°, 64; p-HO, o-Me, 227°, 20.2; p-HO, m-Me, 213°, 13.5; p-HO, p-Me, 160°, 27; o-MeO, o-Me, 212°, 41.8; o-MeO, m-Me, 231°, 70.7; o-MeO, p-Me, 223°, 57.9; m-MeO, o-Me, 185°, 57.9; m-MeO, m-Me, 172°, 64.3; m-MeO, p-Me, 171°, 64.3; p-MeO, o-Me, 217°, 96.5; p-MeO, m-Me, 203°, 57.9; p-MeO, p-Me, 205°, 45. The following IV were prepared (R, R', m.p., and % yield given): H, o-Me, 170°, 100; H, m-Me, 114°, 92.8; H, p-Me, 162°, 92.8; m-HO, o-Me, 210°, 79.5; m-HO, m-Me, 180°, 94.8; m-HO, p-Me, 209°, 94.8; p-HO, o-Me, 220°, 86.6; p-HO, m-Me, 205°, 79; p-HO, p-Me, 210°, 94.8; o-MeO, o-Me, 164°, 97.4; o-MeO, m-Me, 141°, 97.4; o-Me, p-Me, 177°, 97.4; m-MeO, o-Me, 117°, 89.8; m-MeO, m-Me, 108°, 97.4; m-MeO, p-Me, 107°, 74.9; p-MeO, o-Me, 177°, 97.4; p-MeO, m-Me, 108°, 97.4; p-MeO, p-Me, 158°, 97.4. I (R = o-HO) with II (R' = Me) give only the corresponding coumarin-3-carboxytoluidides as yellow crystalline compds. In this manner were obtained 43.1% coumarin-3-carboxy-o-toluidide, m. 226°; 32.3% m-toluidide, m. 202°; and 28.7% p-toluidide (V), m. 230°. I (R = o-HO) with II (R' = p-Me) in the presence of a trace of piperidine gave, in addition to V, N-(o-hydroxybenzylidene)-p-toluidine, orange crystals, m. 96°, giving a deep violet coloration with FeCl3. All other compds. prepared were white crystalline solids.

IT 1846-98-6P, Coumarin, 3-o-tolylcarbamoyl- 1846-99-7P
 , Coumarin, 3-m-tolylcarbamoyl- 1847-00-3P, Coumarin,
 3-p-tolylcarbamoyl-

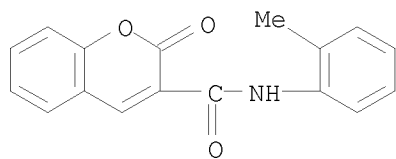
RL: PREP (Preparation)

(preparation of)

RN 1846-98-6 CAPLUS

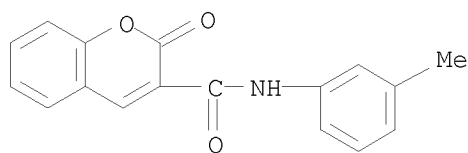
CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



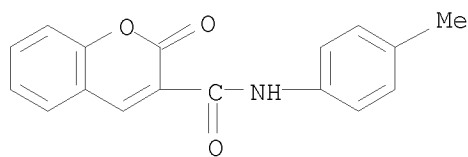
RN 1846-99-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1847-00-3 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 5

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

L4 ANSWER 127 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1954:18334 CAPLUS

DOCUMENT NUMBER: 48:18334

ORIGINAL REFERENCE NO.: 48:3356c-f

TITLE: Syntheses of coumarin derivatives. IV. Synthesis of coumarin- and 6-nitrocoumarin-3-carboxylic acid derivatives. 3

AUTHOR(S): Ichibagase, Hisashi; Terada, Seisuke

CORPORATE SOURCE: Univ. Nagasaki

SOURCE: Yakugaku Zasshi (1953), 73, 466-9

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

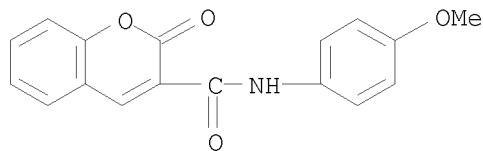
GI For diagram(s), see printed CA Issue.

AB cf. C.A. 47, 6413e. Coumarin-3-carboxylic acid (I) (3 g.) and 30 g. iso-AmOH treated 45 min. with cooling with dry HCl gas, the mixture boiled 30 min., cooled, poured into 5% Na₂CO₃, the upper layer poured into water, kept overnight, and the product recrystd. from iso-AmOH give 2.9 g. (71%) iso-Am coumarin-3-carboxylate, columns, m. 53.5-4°. 6-Nitrocoumarin-3-carboxylic acid (II) (2 g.) and 30 ml. MeOH treated 1 hr. with dry HCl gas with heating, cooled, poured into 400 ml. 5% Na₂CO₃, and the product recrystd. from C₆H₆ give 1.8 g. (85%) Me ester of II, needles, m. 217-8°; similarly, II and EtOH yielded 91% Et ester, m. 198-8.5°. The acid chlorides of I and II (prepared from the acids with SOCl₂) with bases in C₆H₆ form C₆H₄.O.CO.C(COR):CH (III) and 6-O₂NC₆H₃.O.CO.C(COR):CH (IV). Derivs. of III: R = PhNH (V), needles, m. 249-50°; p-MeOC₆H₄NH (VI), needles, m. 216-17°; p-EtOC₆H₄NH (VII), needles, m. 215°. Derivs. of IV: R = V, prisms, m. 290-1°; VI, needles, m. 269-70°; VII, needles, m. 243°. I or II in Me₂CO or alc. with bases to form salts of I and II. II.PhNH₂, needles, m. 265-6°; II.p-H₂NC₆H₄OMe, needles, m. 241.5°; II.H₂NC₆H₄OEt-p, needles, m. 228.5°; II.H₂NC₆H₄CO₂Et-p, needles, m. 225.5°.

IT 1846-94-2P, Coumarin, 3-[(p-methoxyphenyl)carbamoyl]-
 4487-68-7P, Coumarin, 3-[(p-ethoxyphenyl)carbamoyl]-6-nitro-
 4527-55-3P, Coumarin, 3-[(p-ethoxyphenyl)carbamoyl]-
 54396-25-7P, Coumarin, 3-phenylcarbamoyl- 301818-26-8P
 , Coumarin, 6-nitro-3-phenylcarbamoyl- 302815-26-5P, Coumarin,
 3-[(p-methoxyphenyl)carbamoyl]-6-nitro-
 RL: PREP (Preparation)
 (preparation of)

RN 1846-94-2 CAPLUS

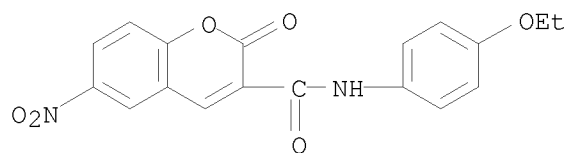
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



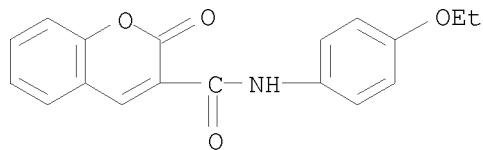
RN 4487-68-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethoxyphenyl)-6-nitro-2-oxo- (CA INDEX NAME)

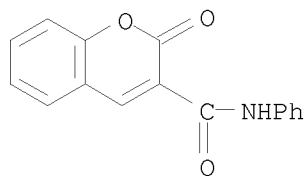
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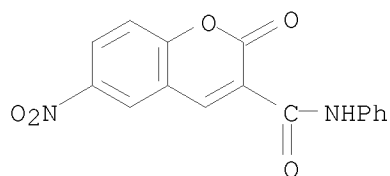
RN 4527-55-3 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-ethoxyphenyl)-2-oxo- (CA INDEX NAME)



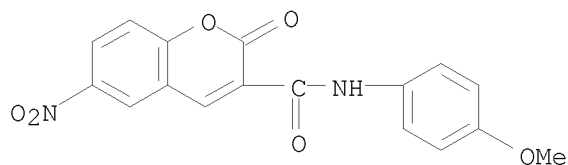
RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



RN 301818-26-8 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-nitro-2-oxo-N-phenyl- (CA INDEX NAME)



RN 302815-26-5 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-6-nitro-2-oxo- (CA INDEX NAME)



L4 ANSWER 128 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1953:37700 CAPLUS

DOCUMENT NUMBER: 47:37700

ORIGINAL REFERENCE NO.: 47:6413g-i,6414a

TITLE: Nuclear oxidation in flavones and related compounds.
XXXV. Isomerization of 5,7,8-hydroxychromones into
5,6,7-hydroxychromonesAUTHOR(S): Chakravorty, D. K.; Mukerjee, S. K.; Murty, V. V. S.;
Seshadri, T. R.

CORPORATE SOURCE: Delhi Univ.

SOURCE: Proceedings - Indian Academy of Sciences, Section A
(1952), 35A, 34-44

CODEN: PISAA7; ISSN: 0370-0089

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C.A. 46, 4537d. Methods of nuclear oxidation were applied to the preparation of chromone derivs., which were required for the study of isomeric change. Just as in the flavone group, the presence of a MeO (or HO) group in the 3-position prevents isomeric change from the 5,7,8- to the 5,6,7-arrangement of HO groups, in its absence the isomeric change takes place. The following 2-methylchromones are described:
5,7,8-trihydroxy-3-methoxy (I), m. 242-4° (decomposition), from the 5,7-di-HO compound (II) and K₂S₂O₈; 3,7-dimethoxy-5-hydroxy (III), m. 121-2°, from II and Me₂SO₄; 3,7-dimethoxy-5,8-dihydroxy (IV), m. 216-18° (decomposition), from III and K₂S₂O₈ in pyridine and NaOH solution; 3,5,7,8-tetra-MeO (V), m. 158-9°, from I and Me₂SO₄; 3,5,7,8-tetrahydroxy (VI), decompose 270-3°, from I with HI in Ac₂O, can be remethylated to V with Me₂SO₄; 7,8-dihydroxy-3-methoxy (VII), m. 208-9°, from 7-hydroxy-3-methoxy-2-methyl-4-oxo-1,4 H - benzopyran - 8 - carboxaldehyde in NaOH solution with H₂O₂; 3,7,8-trimethoxy, m. 112-13°, from VII and Me₂SO₄; 5,7,8-trimethoxy (VIII), m. 170-1°, by treatment with alc. H₂SO₄ of α -acetyl-2-hydroxy-3,4,6-trimethoxyacetophenone (IX), m. 122-4° (prepared from 2,3,4,6-HO(MeO)3C₆HCOMe in AcOEt with powdered Na under Et₂O); 5,6,7-trihydroxy (X), m. 284-6°, from VIII with HI in Ac₂O; 5,6,7-trimethoxy (XI), m. 99-100°, by methylation of X. 2-Hydroxy-4,5,6-trimethoxy- α -acetylacetophenone (XII), m. 141-2°, from 2,4,5,6-HO(MeO)3C₆HCOMe and Na in AcOEt, gives XI with H₂SO₄.

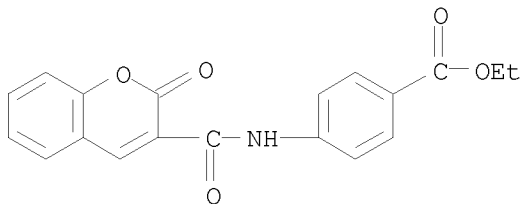
IT 111947-24-1P, Benzoic acid,
p-(2-oxo-2H-1-benzopyran-3-carboxamido)-, ethyl ester

RL: PREP (Preparation)

(preparation of)

RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl
ester (CA INDEX NAME)



10/513699

<12/04/2007>

Erich Leese

L4 ANSWER 129 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1953:37699 CAPLUS

DOCUMENT NUMBER: 47:37699

ORIGINAL REFERENCE NO.: 47:6413e-g

TITLE: Syntheses of coumarin derivatives. III. Syntheses of 3-coumarincarboxylic and 6-nitro-3-coumarin-3-carboxylic acid derivatives. 2

AUTHOR(S): Ichibagase, Hisashi; Terada, Seisuke

CORPORATE SOURCE: Niigata Univ.

SOURCE: Yakugaku Zasshi (1952), 72, 1043-5

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

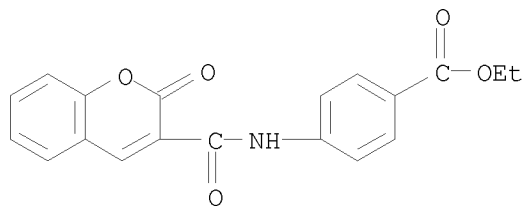
LANGUAGE: Unavailable

AB II (3 g.) in 30 g. PrOH treated with dry HCl gas 45 min. with cooling, boiled 30 min., cooled, the clear solution poured into 500 ml. 5% Na₂CO₃, and the product filtered, washed with water, dried, and recrystd. from PrOH give 3.3 g. (90%) Pr ester, columns, m. 71°. The iso-Pr, needles, m. 89.5°, and iso-Bu ester, plates, m. 76°, are prepared similarly with 87% and 82% yields, resp. III (2 g.) in the same way gives 5.3 g. (90%) Pr ester, needles, m. 165.5° (from C₆H₆); iso-Pr ester, needles, m. 217°; iso-Bu ester, needles, m. 187-8°. I (2.5 g.) and 20 ml. SOCl₂ give the acid chloride which is treated in 20 ml. C₆H₆ with 4 g. p-H₂NC₆H₄CO₂Et in 20 ml. C₆H₆, and the product filtered and recrystd. from Me₂CO to give 4.2 g. (p-carbethoxyanilide) of I, plates, m. 248°; (p-carbethoxyanilide) of II, needles, m. 293-4°.

IT 111947-24-1P, Benzoic acid, p-(2-oxo-2H-1-benzopyran-3-carboxamido)-, ethyl ester
RL: PREP (Preparation)
(preparation of)

RN 111947-24-1 CAPLUS

CN Benzoic acid, 4-[[[(2-oxo-2H-1-benzopyran-3-yl)carbonyl]amino]-, ethyl ester (CA INDEX NAME)



L4 ANSWER 130 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1950:56380 CAPLUS

DOCUMENT NUMBER: 44:56380

ORIGINAL REFERENCE NO.: 44:10705g-i,10706a-f

TITLE: Synthesis of rotenone and its derivatives. XVII.
Rotenonone nucleus

AUTHOR(S): Parker, G.; Robertson, Alexander

CORPORATE SOURCE: Univ. of Liverpool, UK

SOURCE: Journal of the Chemical Society (1950) 1121-4
CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C.A. 44, 1496d. 7-Methoxy-4-coumarin-carboxylic acid (I) (5 g.) and 4.73 g. PC15 in 60 ml. CHCl₃, warmed 1.5 hrs. on the water bath, give the crude acid chloride (II) which, warmed 5 min. with PhNH₂, gives the anilide, pale greenish yellow, m. 181°. II (10 g. I), 5 g. m-C₆H₄(OH)₂, and 40 ml. PhNO₂, treated with 7 g. AlCl₃, kept 6 hrs. at 60°, and treated with 75 ml. H₂O and 75 ml. concentrated HCl, give 6.7 g. 2', 4'-dihydroxy-7-methoxy-4-benzoylcoumarin (III), m. 237-8°, wine-red color with alc. FeCl₃ (diacetate, m. 88°). Prolonged boiling of III with alc.-HCl or alc.-H₂SO₄ gives a small quantity of the Et ester of I; III could not be cyclized by AlCl₃ in PhNO₂. 3-Coumarincarboxylic acid (IV) and PC15 in CHCl₃ give the acid chloride (V), m. 137°; 5 g. V, 2.5 g. PhOH, and 4.5 g. AlCl₃, 2 days at room temperature, give 3.2 g. of the Ph ester of IV, m. 160°; p-tolyl ester, m. 159°. V (from 5 g. IV) and 2.8 g. m-C₆H₄(OH)₂ in 30 ml. PhNO₂, treated with 3.6 g. AlCl₃, kept 2 days at room temperature, and the product extracted with boiling EtOH, give 3.1 g. 2', 4'-dihydroxy-3-benzoylcoumarin (VI), yellow, m. 234° (decomposition), deep red FeCl₃ reaction in EtOH; the alc.-insol. residue (1.2 g.) is 7'-hydroxy-3, 4-dihydrochromanono-(3', 2', 3, 4)coumarin (VII), yellow, m. above 320°; the pale green solution in concentrated H₂SO₄ has an intense green fluorescence; acetate, m. 230-1°; Me ether, pale yellow, m. 250°. The preparation of VI could not be repeated. VII (0.7 g.) in 100 ml. AcOH, treated with 1.1 g. Pb(OAc)₄ and kept 6 hrs. at 50-60° and 2 hrs. at 80°, gives 0.4 g. unchanged VII and 0.2 g. 7'-hydroxychromono(3', 2', -3, 4)coumarin, with 1 mol. H₂O, orange-yellow, m. above 360°; acetate, m. 224° (decomposition). 7-Methoxy-3-coumarincarboxylic acid (VIII), through the acid chloride (IX), gives the anilide, pale green, m. 232°. IX (from 5 g. VIII), 2.7 g. m-C₆H₄(OH)₂, and 4.5 g. AlCl₃ in 20 ml. PhNO₂, 48 hrs. at room temperature, give the 7-MeO derivative of VII,

does

not m. at 300° (acetate, m. 167°). 3, 7-Di-methoxy-4-coumarincarboxylic acid (X), m. 212° (1.7 g. from 3 g. Et ester and H₂SO₄, refluxed 45 min.); through the acid chloride (XI), it gives the anilide, m. 191°. XI (from 3 g. X), 1.4 g. m-C₆H₄(OH)₂, and 2 g. AlCl₃ in 20 ml. PhNO₂, 7 hrs. at 70°, give 2.1 g. 2', 4'-dihydroxy-3, 7-dimethoxy-4-benzoylcoumarin (XII), bright yellow, m. above 300°, intense bottle-green FeCl₃ reaction in EtOH; diacetate, m. 264°. XII (1 g.), 20 ml. HBr, and 10 ml. AcOH, refluxed 2 hrs., give 0.45 g. 7, 7'-dihydroxy-chromono(2', 3', 3, 4)coumarin (XIII), pale yellow, m. 240°. XIII results in a small yield from the acid chloride of 3-chloro-7-methoxy-4-coumarincarboxylic acid and m-C₆H₄(OH)₂ with AlBr₃ in PhNO₂.

IT 313954-47-1P, Herniarin, 3-phenylcarbamoyl-

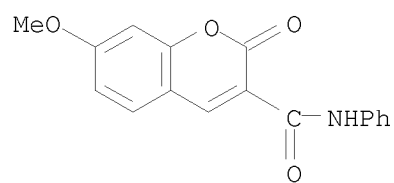
RL: PREP (Preparation)

(preparation of)

10/513699

RN 313954-47-1 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 7-methoxy-2-oxo-N-phenyl- (CA INDEX NAME)



<12/04/2007>

Erich Leese

10/513699

L4 ANSWER 131 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1950:55453 CAPLUS

DOCUMENT NUMBER: 44:55453

ORIGINAL REFERENCE NO.: 44:10519e-g

TITLE: Fluorescence of coumarin derivatives as a function of pH

AUTHOR(S): Goodwin, Richard H.; Kavanagh, Frederick

CORPORATE SOURCE: Connecticut Coll., New London

SOURCE: Archives of Biochemistry (1950), 27, 152-73

CODEN: ARBIAE; ISSN: 0096-9621

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The color and relative intensity of the fluorescence of 98 coumarin derivs. are reported for H-ion concns. ranging, in pH, from -1.6 to 12.6, the 366-m μ Hg arc line being used to excite the fluorescence. The influence on fluorescence of OH, MeO, COOH, Ph, Me, and other substitutions at various positions on the coumarin mol. is presented and some of the uses of the pH-fluorescence curves are briefly discussed. The distinctness of the pH-fluorescence curve of scopoletin (7-hydroxy-6-methoxycoumarin) from that of any other coumarin reported here supports the hypothesis that the coumarin derivative isolated from Avena roots was scopoletin (C.A. 43, 7090e).

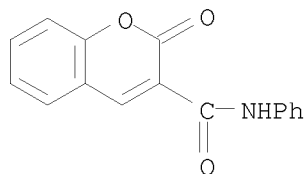
IT 54396-25-7P, Coumarin, 3-phenylcarbamoyl-

RL: PREP (Preparation)

(preparation of)

RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L4 ANSWER 132 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1950:24878 CAPLUS

DOCUMENT NUMBER: 44:24878

ORIGINAL REFERENCE NO.: 44:4875b-g

TITLE: Fluorescent reagents. Acyl chlorides and acyl hydrazides

AUTHOR(S): Baker, Wilson; Haksar, C. N.; McOmie, J. F. W.

CORPORATE SOURCE: Univ. Bristol, UK

SOURCE: Journal of the Chemical Society (1950) 170-3
CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 44:24878

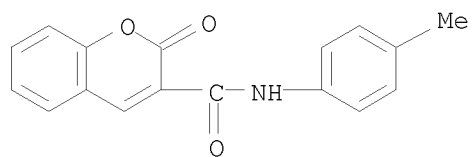
AB cf. C.A. 43, 7936e. The following 2-derivs. of 1-(o-hydroxybenzoyl)hydrazine were prepared by addition of 1 mol. of the CO compound to 1 mol. o-HOC₆H₄CONHNH₂ in warm EtOH; isopropylidene, m. 228°; piperonylidene, m. 270°; acetophenone o-hydroxybenzoylhydrazone, m. 212°; when adsorbed from EtOH on Al₂O₃, these derivs. exhibit a blue fluorescence in ultraviolet light. AcH and EtCHO did not form solid derivs. 2,5-HO(O₂N)C₆H₃CO₂Me (1 g.) and 1 cc. 60% N₂H₄.H₂O in 20 cc. MeOH, refluxed 0.25 hr., give 5-nitrosalicyloyl hydrazide, with 1 mol. MeOH, yellow, m. 154° (decomposition). o-MeOC₆H₄CO₂Me (30 g.) and 26 cc. 60% N₂H₄.H₂O, refluxed 2.25 hrs., give 60% o-anisoyl hydrazide, m. 85°; benzylidene derivative, m. 176°; isopropylidene derivative, m. 218°; these show a blue fluorescence in ultraviolet light. 3-Coumarincarboxylic acid (I) with SOCl₂ yields the chloride (II), m. 147°; p-toluidide, greenish yellow, m. 230°; morpholide, m. 92°. The Me and Et esters of I do not react with N₂H₄.H₂O at room temperature and in boiling EtOH they yield (o-HOC₆H₄CH:N)₂ (III) and CH₂(CONHNH₂)₂; III resulted also from II and N₂H₄.H₂O in various solvents. 7-Methoxy-4-methyl-3-coumarincarboxylic acid (IV) and SOCl₂ (refluxed 1 hr.) give the unstable chloride, m. 94-5° [not analyzed but characterized by formation of the Me (V) and Et esters]; IV and SO₂Cl₂ (trace of Bz₂O₂) give 7-methoxy-4-chloromethyl-3-coumarincarbonyl chloride, m. 198°. V and 60% N₂H₄.H₂O in 35 cc. MeOH give 55-60% of the hydrazide, pale yellow, m. 210°; benzylidene derivative, m. 250°; isopropylidene derivative, m. 237°; the derivs. are strongly fluorescent. 7-Hydroxy-4-coumarinacetic acid (preparation in 80% yield given) yields a Me ester, b. 220°; this could not be converted into a hydrazide. Me 7-methoxy-4-coumarinacetate gives 56% 7-methoxy-4-coumarinacetyl hydrazide, m. 206°; benzylidene derivative, m. 264°; ethylidene derivative, m. 194°; methylene derivative, m. 156°. (7-Methoxy-4-coumarinacetyl)hydrazones: PhAc, m. 215°; MeEtCO, m. 176°; AcCO₂H, m. 220°; dihydroorcinol, m. 258° (decomposition); these are highly fluorescent. Expts. with disk chromatograms of Al₂O₃ have shown the possibility of separating mixts. of the fluorescent esters and hydrazones described.

IT 1847-00-3P, Coumarin, 3-p-tolylcarbamoyl-
RL: PREP (Preparation)
(preparation of)

RN 1847-00-3 CAPLUS

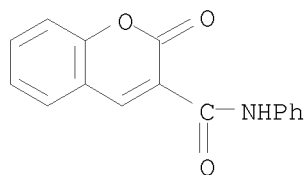
CN 2H-1-Benzopyran-3-carboxamide, N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

10/513699



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS
RECORD (12 CITINGS)

L4 ANSWER 133 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1941:30297 CAPLUS
DOCUMENT NUMBER: 35:30297
ORIGINAL REFERENCE NO.: 35:4740i,4741a-b
TITLE: Condensation of malonanilic acid with aldehydes. II.
With o-, m- and p-hydroxybenzaldehydes
AUTHOR(S): Ittyerah, P. I.; Pandya, Kantilal C.
SOURCE: Proceedings - Indian Academy of Sciences, Section A
(1941), 13A, 119-21
CODEN: PISAA7; ISSN: 0370-0089
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A. 32, 7435.4. PhNHCOCH₂CO₂H (I) (3.5 g.) and 2.4 g. of
o-HOC₆H₄CHO, heated on the water bath for 3 h., give 1.6 g. (30%) of
coumarin-3-carboxanilide, m. 247°. I and m-HOC₆H₄CHO, heated 5 h.,
give 52% of m-hydroxybenzylidenemalonanilic acid (II), m. 209°; it
does not give a color with FeCl₃. With p-HOC₆H₄CHO I gives 18% of the
p-isomer of II, m. 239-40° (FeCl₃ gives a deep red color), and a
small quantity of the anilide, m. 208°. I and BzH, heated 45 min.
or 5 h., give 65 or 86% of benzylidenemalonanilic acid, m. 238°.
IT 54396-25-7P, 1,2-Benzopyran-3-carboxanilide, 2-oxo-
RL: PREP (Preparation)
(preparation of)
RN 54396-25-7 CAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



L4 ANSWER 134 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1937:19588 CAPLUS
 DOCUMENT NUMBER: 31:19588
 ORIGINAL REFERENCE NO.: 31:2742i,2743a-i,2744a-c
 TITLE: Derivatives of 3-coumarincarboxylic acid, a new class
 of synthetic medicinal
 AUTHOR(S): v. Werder, F.
 SOURCE: E. Merck's Jahresberichte (1936), 50, 88-101
 CODEN: EMJBA8; ISSN: 0367-1011
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB In contrast to coumarin, its 3-carboxylic acid derivative (I), which is a sedative in small doses and acts as a hypnotic in large amts., has a sufficiently large therapeutic range of action to permit its use as a sedative but not as a hypnotic. The possibility of achieving a worth-while compound of this type has been investigated by the preparation and testing of over 100 derivs. A number of esters and alkyl-substituted acid amides were prepared together with salts with physiol. active bases. Compds. with simple or complex ring substituents were also synthesized and tested. A mixture of 12.2 g. o-HOC₆H₄CHO and 13.2 g. CH₂(CO₂Me)₂ was treated with 0.5 g. piperidine at room temperature After 24 hrs. the resulting solid mixture was worked up with MeOH and yielded 17.5 g. of methyl 3-coumarincarboxylate, m. 116.5°. Treatment of a suspension of 10 g. I in 100 g. Me₂CHOH for 1.5 hrs. with a vigorous current of dry HCl, refluxing for 45 min. and neutralizing the cooled solution with 1.5 l. of 5% Na₂CO₃ with continuous stirring, gave 9 g. of isopropyl 3-coumarincarboxylate, m. 89°. A mixture of 11.2 g. anhydrous Me₂C(OH)CCl₃ (b. 167°), 12.6 g. 3-coumarincarbonyl chloride (II) and 7.6 g. quinoline was refluxed in 200 cc. toluene for 4 hrs. The cooled reaction mixture was filtered free from quinoline HCl salt, m. 86° and washed with 5% HCl which precipitated another compound m. 227-8°. The filtrate was diluted with Et₂O, washed with 5% Na₂CO₃ and H₂O, dried and concentrated The residue gave, on recrystn. from alc. in the presence of charcoal, colorless crystals of trichlorotert-butyl 3-coumarincarboxylate, m. 176°. Similarly were prepared the Pr, Bu and PhCH₂ esters, m. 73, 67° and 92°, resp., and the HCl salt of the diethylaminoethyl ester, m. 215°. Several esters have the physiol. activity of the acid but do not surpass it in effectiveness. A solution of 20.8 g. II in 300 cc. C₆H₆ was slowly introduced into 11.5 g. CH₂:CHCH₂NH₂ in 200 cc. anhydrous C₆H₆. The mixture was refluxed for 4 hrs., and evaporated The residue was crystallized from 50% alc. and yielded 20 g. of needles of N-allyl-3-coumarincarboxamide, m. 130°. Refluxing a mixture of 26.7 g. H₂NCO₂Et, 62.5 g. II, 45 cc. pyridine in 300 cc. C₆H₆ for 2 hrs. produced 59 g. of crude material, m. 182° which crystallized from Me₂CO in fine colorless needles of Et 3-coumarincarbonylcarbamate, C₁₃H₁₁NO₅, m. 183-4°. The following monosubstituted acid amides were similarly prepared: Et, hexadecyl, phenethyl, PhCH₂, p-anisyl, p-phenetyl, diethylaminoethyl (HCl salt), m. 132-3°, 108-10°, 178-9°, 154°, 215-16°, 206-7°, 187°, resp.; the s-diethylureide and diacetamide, m. 148-9° and 127-9° and Et α - methyl - α -phenyl - β - coumarin-3-carbonylaminopropionate, m. 111-12°. A suspension of 208.5 g. of finely powdered II in 1 l. Et₂O was gradually stirred into a well cooled solution of 150 g. HNEt₂ in 900 cc. of anhydrous Et₂O. After stirring for 18 hrs. at room temperature the mixture was filtered. The residue was extracted with Et₂O and yielded 98 g. HNEt₂.HCl. The Et₂O

extract was added to the filtrate and the residue after evaporation was recrystd.

from 30% alc. producing 212 g. N,N-diethyl-3-coumarincarboxamide (III) m. 77-8°. The alkylation of the amido N atom causes an increased physiol. activity which is at its maximum with the lower alkyl disubstituted amides. III has the same limiting dosage as phanodorn but its lethal dosage is 5 times greater. In 0.2 g. doses, 1-2 times daily, it has a soothing effect in general nervousness and in a great number of neurasthenic and hysterical conditions. In 0.4 g. doses it acts as a hypnotic but is quite harmless. Further disubstituted amides have been prepared: Me₂, Pr₂, MePr, (CH₂:CHCH₂)₂, iso-Bu₂, sec-Bu₂, Ph₂, (β-phenylethyl)₂, (PhCH₂)₂, iso-Bu allyl, iso-Am allyl and the piperidide, N-methyl-p-phenetide and N-benzyl-p-phenetide, m. 144-5°, 80-1°, 109-10°, 132°, 137°, 148°, 236°, 119-20°, 143°, 102-3°, 79° and 179-80°, 111-12° and 160°. Mixing of hot Me₂CO solns. of 19 g. I and 16.5 g. dl-ephedrine and refluxing for 30 min. formed 29.7 g. of colorless ephedrine I salt (IV) m. 196°. The I salts of papaverine, l-ephedrine, l-p-aminophenyl-2-methylamino-1-propanol, quinine, sparteine, 1 - (3',4' - methylenedioxyphenyl) - 3 - methyl -6,7 -dioxymethyleneisoquinoline (V) and eupaverine, m. 129°, 145°, 182°, 137-9°, 157°, 174° and 134°, resp., were similarly prepared. The condensation of 10.1 g. of 3-allyl-2-hydroxybenzaldehyde with 10 g. CH₂(CO₂Et)₂ by heating for 2.5 hrs. in the presence of 0.5 cc. piperidine produced 8 g. of prismatic crystals (from 80% alc.) of Et 8-allyl-3-coumarincarboxylate, m. 88° hydrolyzed by heating with 10% KOH and neutralization with 25% HCl to 8-allyl-3-coumarincarboxylic acid, m. 147°. Similarly the condensation of 2.5 g. CH₂(CO₂Et)₂ and 3.5 g. of 3-phenanthrol-4-aldehyde in the presence of 0.4 cc. piperidine gave a crude ester, m. 165° which was hydrolyzed to phenanthrocoumarincarboxylic acid, C₁₃H₁₀O₄, m. 196°. Clinical tests of IV have shown that smaller doses of the H₂O-soluble IV are as effectively antiasthmatically as the base or its HCl salt. IV is a constituent of the favorably-known antiasthmatic Epocan. The sedative nature of I is enhanced in the quinine salt which also loses much of the bitterness of the base. The spasmolytic effect of the isoquinolines is shown in V which has proved in clinical tests to have outstanding effect in the treatment of intestinal spasm in doses of 0.03 g. administered rectally or perorally without the constipating effect of opiates.

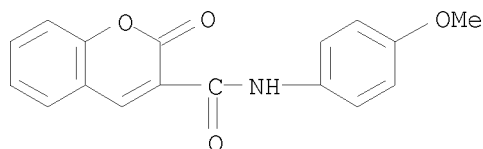
IT 1846-94-2P, 1,2-Benzopyran-3-carbox-p-aniside, 2-oxo-

RL: PREP (Preparation)

(preparation of)

RN 1846-94-2 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, N-(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



L4 ANSWER 135 OF 135 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1931:50327 CAPLUS

DOCUMENT NUMBER: 25:50327

ORIGINAL REFERENCE NO.: 25:5671d-g

TITLE: Condensation of aromatic aldehydes with malonanilic acid and its derivatives

AUTHOR(S): Ahluwalia, Gurcharan Singh; Haq, Muhammad Abdul; Ray, Jnanendra Nath

SOURCE: Journal of the Chemical Society (1931) 2059-62
CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

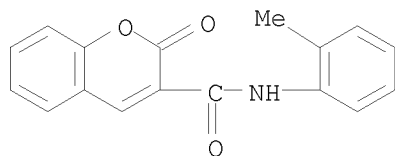
AB PhNHCOCH₂CO₂H (1.8 g.) and piperonal (1.5 g.) in pyridine and a little piperidine, heated at 50-60° for 1 hr., give 1.3 g. of 3,4-methylene-dioxycinnamanilide (I), m. 158°, and 0.5 g. of piperonylidenemalonanilic acid, m. 202° (decomposition). I, on standing or on exposure to light, undergoes a change, possibly partial transformation into the geometrical isomer or an allo-form, which affects the m. p. Veratraldehyde gives a mixture of 3,4-dimethoxycinnamanilide, m. 111°, and 3,4-dimethoxybenzylidenemalonanilic acid, m. 222° (decomposition) (Ag salt). p-Methoxycinnamanilide, m. 140°. 3,4-Methylenedioxycinnam-o-toluidide, m. 181°; p-methoxybenzylidenemalonanilic acid, m. 213° (decomposition); piperonylidenemalon-o-toluidic acid, m. 213°; veratrylidene derivative, m. 219°; p-methoxybenzylidene derivative, m. 217°; p-methoxycinnam-o-toluidide, m. 177°. Reduction of Na piperonylidenemalonanilate with 2% Na-Hg at a low temperature gives α-homopiperonylmalonanilic acid, m. 172° (decomposition); veratryl derivative, m. 173°; α-homopiperonylmalon-o-toluidic acid, m. 163° (decomposition); veratryl derivative, m. 128°. These acids were treated with P₂O₅ in C₆H₆, PhMe or C₆H₄Me₂, with hot 80% H₂SO₄, ZnCl₂, H₂SO₄ in AcOH and with POCl₃ but no ring closure took place. PhNHCOCH₂CO₂H and o-HOC₆H₄CHO with pyridine give coumarin-3-carboxanilide, yellow, m. 247°; o-toluidide, m. 226°; m-toluidide, m. 200°. o-O₂NC₆H₄CHO gives a good yield of o-nitrobenzylidenemalonanilic acid (II), m. 172° (decomposition); o-toluidic acid, m. 221° (decomposition); o-nitropiperonylidenemalonanilic acid, m. 230°. II with Zn and boiling AcOH gives 2-anilinoquinoline and probably a ketonaphthioline.

IT 1846-98-6P, 1,2-Benzopyran-3-carboxy-o-toluide, 2-keto-
1846-99-7P, 1,2-Benzopyran-3-carboxy-m-toluide, 2-keto-
54396-25-7P, 1,2-Benzopyran-3-carboxanilide, 2-keto-

RL: PREP (Preparation)
(preparation of)

RN 1846-98-6 CAPLUS

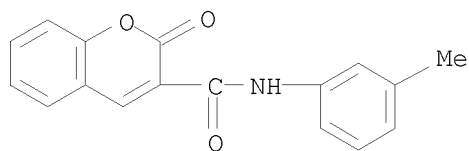
CN 2H-1-Benzopyran-3-carboxamide, N-(2-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 1846-99-7 CAPLUS

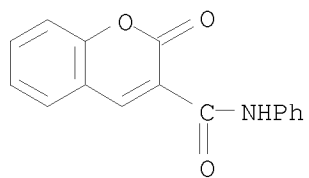
10/513699

CN 2H-1-Benzopyran-3-carboxamide, N-(3-methylphenyl)-2-oxo- (CA INDEX NAME)



RN 54396-25-7 CAPLUS

CN 2H-1-Benzopyran-3-carboxamide, 2-oxo-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

10/513699

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(FILE 'HOME' ENTERED AT 14:50:58 ON 12 MAR 2010)

FILE 'REGISTRY' ENTERED AT 14:52:59 ON 12 MAR 2010

L1 STRUCTURE UPLOADED

L2 50 S L1 SSS

L3 1386 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:53:52 ON 12 MAR 2010

L4 135 S L3 FULL

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

786.85

979.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-114.75

-114.75

STN INTERNATIONAL LOGOFF AT 14:56:43 ON 12 MAR 2010